

Before the
Federal Communications Commission
Washington, D.C. 20554

In the Matter of)
International Comparison Requirements Pursuant)
to the Broadband Data Improvement Act) GN Docket No. 09-47
International Broadband Data Report)

FIRST REPORT

Adopted: August 27, 2010

Released: August 27, 2010

By the Chief, International Bureau:

I. INTRODUCTION

1. This inaugural International Broadband Data Report (IBDR) presents data and information on international broadband service capability pursuant to Section 1303 of the Broadband Data Improvement Act, which requires the Commission to include such information in its annual broadband deployment report. By the issuance of this report and the Commission's Sixth Broadband Deployment Report, the Commission meets this statutory obligation.

II. BACKGROUND

A. Requirements of the BDIA

2. The BDIA requires the Commission to, among other things, include in its annual broadband deployment report "information comparing the extent of broadband service capability (including data transmission speeds and price for broadband service capability) in a total of 75 communities in at least 25 countries abroad for each of the data rate benchmarks for broadband service

1 47 U.S.C. § 1303(b) (2010).

2 See 47 U.S.C. § 1302(b) (2010) (requiring the Commission to determine "whether advanced telecommunications capability is being deployed to all Americans in a reasonable and timely fashion"). Section 706 of the Telecommunications Act of 1996, Pub. L. No. 104-104, Title VII, Sec. 706, 110 Stat. 56, 153 (1996), as amended in relevant part by the Broadband Data Improvement Act, Pub. L. No. 110-385, 122 Stat. 4096 (2008) (BDIA), is now codified in Title 47, Chapter 12 of the United States Code. See 47 U.S.C. § 1301 et seq. In its Sixth Broadband Deployment Report, the Commission uses the term "broadband" synonymously with "advanced telecommunications capability." See Inquiry Concerning the Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion, and Possible Steps to Accelerate Such Deployment Pursuant to Section 706 of the Telecommunications of 1996, as Amended by the Broadband Data Improvement Act; A National Broadband Plan for Our Future, GN Docket Nos. 09-137 and 09-51, Sixth Broadband Deployment Report, FCC 10-129 (rel. July 20, 2010) (Sixth Broadband Deployment Report).

3 Sixth Broadband Deployment Report.

utilized by the Commission to reflect different speed tiers.”⁴ For this comparison, the BDIA directs the Commission to choose international communities comparable to U.S. communities with respect to population size, population density, topography, and demographic profile.⁵ The Commission is also directed to include “a geographically diverse selection of countries” and “communities including the capital cities of such countries.”⁶ The Commission must also identify a number of specific similarities and differences in each community, including “their market structures, the number of competitors, the number of facilities-based providers, the types of technologies deployed by such providers, the applications and services those technologies enable, the regulatory model under which broadband service capability is provided, the types of applications and services used, business and residential use of such services, and other media available to consumers.”⁷

B. Public Comment and Research

3. The Commission sought comment on how to implement certain provisions of the BDIA, including the international comparison requirement.⁸ Carriers, public interest groups, and other interested members of the public submitted comments, including comments on the broadband survey conducted by the Organisation for Economic Co-operation and Development (OECD).⁹

4. In preparing the *IBDR*, we relied on public data and information gathered by the Commission staff, including a number of efforts to obtain data and information from entities in foreign countries.¹⁰ We also reviewed portions of the record developed in the Commission’s Section 706 and National Broadband Plan proceedings, including the broadband report prepared by the Berkman Center for Internet and Society at Harvard University, that relate to the international comparison requirement in the BDIA.¹¹

5. Informed by the various sources noted above and recognizing that no single existing public data source would satisfy all of the requirements of the BDIA,¹² staff gathered information for actual prices advertised to consumers for broadband services in different parts of the world from the websites of competitive and new entrant broadband providers.¹³ This speed and pricing dataset is

⁴ 47 U.S.C. § 1303(b).

⁵ *Id.*

⁶ *Id.*

⁷ 47 U.S.C. § 1303(b)(3).

⁸ See *Comment Sought on International Comparison and Consumer Survey Requirements in the Broadband Data Improvement Act*, GN Docket No. 09-47, Public Notice, 24 FCC Rcd 3908 (2009) (*BDIA Public Notice*). Comments were received by April 10, 2009, and replies were received by April 17, 2009.

⁹ See Comcast BDIA Comments at 3-6; NCTA BDIA Reply Comments at 3; Verizon BDIA Reply Comments at 1-2, 8; New York Ratepayers Advocate BDIA Reply Comments at 3. More information on the OECD survey can be found at the “OECD Broadband Portal” webpage, available at <http://www.oecd.org/sti/ict/broadband>.

¹⁰ See Appendix A *infra*.

¹¹ See generally <http://www.broadband.gov>. The Commission conducted two public workshops focused specifically on international issues. See http://broadband.gov/ws_int_lessons.html and http://broadband.gov/ws_global_bb.html. See also Berkman Center for Internet and Society, Harvard University, *Next Generation Connectivity: A Review of Broadband Internet Transitions and Policy From Around the World* (2010), available at http://cyber.law.harvard.edu/publications/2010/Next_Generation_Connectivity (providing direction to sources of information on many countries’ broadband situation).

¹² See, e.g., Verizon BDIA Comment at 13; NCTA BDIA Reply at 2 (stating that no one source would satisfy all the requirements of the BDIA).

¹³ See Appendix C *infra*.

included in Appendix C of the *IBDR*. Commission staff also gathered community-level data and information from the OECD, broadband adoption data from the European Commission's regional data,¹⁴ and other data from individual government agencies, either through the national statistical agency or the communications ministry and/or regulator.¹⁵ This community dataset is included in Appendix D. Finally, staff gathered information about the broadband market and broadband regulations in various countries around the world.¹⁶ This information is contained in Appendix E. We discuss the data that we collected in more detail below.¹⁷

III. DISCUSSION

A. Broadband Service Capability

6. The primary task that the BDIA sets forth for the Commission is to gather information on the "broadband service capability" in foreign communities.¹⁸ More specifically, the Commission is directed to include "data transmission speeds and price for broadband service capability."¹⁹ The BDIA further directs the Commission to collect this information such that it can be compared to the data rate benchmarks used by the Commission "to reflect different speed tiers."²⁰

7. The term "broadband service capability" is not defined in the BDIA or its legislative history. In view of the usage of the phrase in the BDIA, we find it reasonable to conclude that the phrase refers to the availability of broadband service offerings in foreign communities comparable to broadband Internet access service offerings in the United States.²¹

8. Speed is a quantitative description of the information transfer rate of a broadband Internet

¹⁴ Eurostat is the Statistical Office of the European Communities situated in Luxembourg. Its task is to provide the European Union with statistics at a European level that enable comparisons between countries and regions. See http://epp.eurostat.ec.europa.eu/portal/page/portal/region_cities/introduction.

¹⁵ See Appendix D *infra*.

¹⁶ See Appendix E *infra*.

¹⁷ There are some differences between the countries included for each dataset in this *IBDR*; those differences are primarily due to data availability. See Appendix B *infra*.

¹⁸ 47 U.S.C. § 1303(b)(1).

¹⁹ *Id.*

²⁰ See *Development of Nationwide Broadband Data to Evaluate Reasonable and Timely Deployment of Advanced Services to All Americans, Improvement of Wireless Broadband Subscribership Data, and Development of Data on Interconnected Voice over Internet Protocol (VoIP) Subscribership*, WC Docket No. 07-38, Report and Order and Further Notice of Proposed Rulemaking, 23 FCC Rcd 9691 (2008); Order on Reconsideration, 23 FCC Rcd 9800 (2008) (*Form 477 Order*).

²¹ See *Inquiry Concerning High-Speed Access to the Internet Over Cable and Other Facilities; Internet Over Cable Declaratory Ruling; Appropriate Regulatory Treatment for Broadband Access to the Internet Over Cable Facilities*, GN Docket No. 00-185 & CS Docket No. 02-52, Declaratory Ruling and Notice of Proposed Rulemaking, 17 FCC Rcd 4798 (2002), *aff'd*, *Nat'l Cable & Telecomms. Ass'n v. Brand X Internet Services*, 125 S. Ct. 2688 (2005) (*NCTA v. Brand X*); *Appropriate Framework for Broadband Access to the Internet over Wireline Facilities; Universal Service Obligations of Broadband Providers; Review of Regulatory Requirements for Incumbent LEC Broadband Telecommunications Services; Computer III Further Remand Proceedings et al.*, CC Docket Nos. 02-33, 01-337, 95-20, and 98-10 & WC Docket Nos. 04-242 and 05-271, Report and Order and Notice of Proposed Rulemaking, 20 FCC Rcd 14853 (2005), *petitions for review pending*, *Time Warner Telecom v. FCC*, No. 05-4769 (and consolidated cases) (3rd Cir. filed Oct. 26, 2005); *United Power Line Council's Petition for Declaratory Ruling Regarding the Classification of Broadband over Power Line Internet Access Service as an Information Service*, WC Docket No. 06-10, Memorandum Opinion and Order, 21 FCC Rcd 13281 (2006); *Appropriate Regulatory Treatment for Broadband Access to the Internet Over Wireless Networks*, Declaratory Ruling, 22 FCC Rcd 5901 (2007).

access service. We note that in the *Sixth Broadband Deployment Report*, the Commission set a threshold for determining broadband availability as a transmission service offering actual download (*i.e.*, to the customer) speeds of at least 4 Mbps and actual upload (*i.e.*, from the customer) speeds of at least 1 Mbps.²² The Commission collects subscribership data on the offered speeds of broadband Internet access service in the United States through its Form 477, which requires providers to report their broadband service offerings using different speed tiers.²³ We have collected, for purposes of the BDIA, information on speeds offered in foreign communities in the formats available for those countries, which do not always align with the Form 477 categories.²⁴ This information is contained in Appendix C of this *IBDR*.

9. The BDIA further directs the Commission to collect information regarding the price of broadband service capability. Thus, Commission staff also compiled in Appendix C a dataset composed of publicly available pricing information for broadband services in 34 countries, most of which are members of the OECD. Commission staff collected this pricing information between July and August 2009.²⁵ The dataset includes a range of broadband offers by all major Internet service providers for these 34 countries.²⁶ The countries in our dataset represent a broad spectrum of broadband markets. We have converted all prices in local currencies to U.S. dollars based on purchasing power parity (PPP).²⁷ These

²² *Sixth Broadband Deployment Report*, at ¶ 5.

²³ *See Form 477 Order*.

²⁴ We have collected information on advertised speeds, which typically feature “up to” download and upload speeds. Actual performance experienced by consumers can vary from the advertised speeds. The National Broadband Plan has recommended that the Commission, in coordination with the National Institute of Standards and Technology, establish technical broadband measurement standards and methodology and a process for updating them. Key characteristics to be measured may include: actual speeds and performance over the broadband service provider’s network and the end-to-end performance of the service; actual speeds and performance at peak-use hours; actual speeds and performance achieved with a given probability over a period of time that include peak use times; and actual speeds and performance tested against a given set of standard protocols and applications. *See FCC, Omnibus Broadband Initiative, Connecting America: The National Broadband Plan, GN Docket No. 09-51, at 44-45 (2010)*. In future *IBDR* reports, we will evaluate what data are available for actual performance for communities in foreign countries.

²⁵ *See Appendix C infra*. We assembled the data by visiting the websites of broadband providers serving the countries and communities in our sample. In order to mitigate the effects of price variations over time, we visited the homepages of providers and downloaded the relevant information from July to August in 2009. In certain cases (*e.g.*, Japan and Singapore), we supplemented the information obtained from providers with information obtained from the country’s diplomatic mission. For some countries in the dataset, we were able to determine whether the offerings were on a national or community level. Many advertised offerings were national in scope, though some were listed for particular cities or on an “as available” basis.

²⁶ For each of the European countries in the dataset, we obtained a list of incumbent operators and their competitors from the European Commission’s 2008 report on broadband Internet access prices. *See Broadband Internet Access Cost (BIAC), Final Report*, prepared for the European Commission, Information Society and Media Directorate-General, by Van Dijk Management Consultants, December 2008, Brussels, Belgium, *available at* http://ec.europa.eu/information_society/eeurope/i2010/docs/benchmarking/broadband_access_costs_1st_half_2008.pdf. For non-European countries in the dataset, we obtained our list of incumbent operators and their competitors through staff research.

²⁷ PPPs are currency conversion rates that both convert to a common currency and equalize the purchasing power of different currencies. In other words, they eliminate the differences in price levels between countries in the process of conversion. PPPs show the ratio of the prices in national currencies of the same good or service in different countries. For example, if the price of a hamburger in France is €2.84 and in the United States it is \$2.20, then the PPP for hamburger between France and the United States is €2.84 to \$2.20, or €1.29 to the dollar. This means that for every dollar spent on hamburger in the United States, €1.29 would have to be spent in France to obtain the same quantity and quality of hamburger. *See OECD, Statistics Directorate webpage, available at* http://oecd.org/department/0,3355,en_2649_34357_1_1_1_1_1,00.html and *FAQ webpage, available at* http://oecd.org/faq/0,3433,en_2649_34357_1799281_1_1_1_1,00.html#1799063.

converted prices allow more meaningful international price comparisons of broadband services.²⁸

10. For each broadband Internet service offering, we collected information on advertised monthly recurring charges and nonrecurring charges including connection and modem charges. The dataset includes not only the advertised price, but also includes information on promotional price discounts such as bundling with voice or video service, and the length of the service contract.²⁹ Collecting information on advertised and promotional prices may be helpful for analyzing competition because advertised prices are focused on winning new customers or keeping customers considering switching providers.

11. Broadband Internet service prices include both recurring and non-recurring charges. Therefore, our dataset includes all monthly charges, such as line rental charges that subscribers must pay before they can gain access to broadband services. The dataset also includes non-recurring installation or set-up charges to capture the full cost of access to broadband. Monthly prices for broadband service may vary depending on whether or not a rental fee for a modem is included in the basic price.

12. We included the upload and download speeds for each broadband service offering and the monthly prices associated with those speeds. Where providers expressly included limitations on download and upload capacity in their service offerings, our dataset identifies such restrictions on usage. The pricing dataset also includes information on the types of technology used, including DSL, cable, fiber to the home, fixed wireless, and public WiFi.

13. This dataset also contains a number of offers that include other services such as voice or video in combination with a broadband service. International comparisons would be facilitated if they involved only stand-alone broadband service offerings, rather than broadband Internet access service in combination with one or more other offerings. However, we encountered numerous variations of bundled service offerings in different countries, making it more difficult to compare prices between communities and countries, or even between competing offerings of different providers within a single community.

14. Our dataset includes a range of retail broadband Internet service prices. While price variation may reflect broadband competition, penetration, availability, geographical and topological variation, and usage, it may also simply reflect the fact that different broadband services are not identical or even similar across countries and communities. And our data collection has confirmed that broadband service is far from homogenous. It varies with respect to download and upload speeds; type of technology used to deliver broadband services; and limitations on use, including limits on upload and download volumes.

B. Community

15. In addition to requiring the Commission to gather data and information on broadband service capability, the BDIA also directs the Commission to include a comparison of broadband development at the community level between and among comparable communities. The BDIA requires the Commission to choose communities that are similar to U.S. communities in terms of population size, population density, topography, and demographic profile.

16. “Community” is not explicitly defined in the BDIA or its legislative history. We

²⁸ Meaningful international PPP price comparisons are easier to achieve when the prices paid are for the same or similar service in each country. Since that is not generally the case for broadband service, as further explained below, we have assembled data on various service attributes in each country or community – such as upload and download speeds, non-recurring charges, promotional discounts, and the like – and associated those attributes with the price data. This approach enables useful international price comparisons.

²⁹ Because we obtained the information for the dataset over a limited period of time, we were not able to determine which offers are regularly available and which are significant departures from regularly available offers. Therefore, while ideally we would include only widely and regularly available offerings, we necessarily include information on a variety of non-standard offers such as special, promotional, or other limited offers.

recognize that community is commonly defined as (1) a unified body of individuals such as a state, or commonwealth; (2) people with common interests living in a particular area; and (3) a group of people with a common characteristic or interest living together within a larger society.³⁰ In view of the usage of the phrase in the BDIA, including its direction that the “communities” include the capital of foreign countries, we conclude that a community is a geographical unit smaller than a nation-state.³¹

17. Commenters also proposed that the Commission consider comparing communities of types of users, such as individuals with hearing loss.³² While we see value in such an approach, in this initial report we focus primarily on geographically defined communities. We believe that the primary intent of Congress in adopting this section of the BDIA was to create a more geographically disaggregated and detailed set of broadband-related data than used in previous comparisons of countries, and this guides our analysis.

18. As noted above, the BDIA directs the Commission to select communities from a geographically diverse set of countries.³³ We have considered commenters’ suggestions on which countries to include. For example, Verizon suggests including countries from the OECD because they are geographically diverse as well as other countries with the highest level of gross domestic product, such as China, India, and Brazil.³⁴ Based on the comments, and because we find the statutory purpose of the BDIA is to develop a geographically disaggregated and detailed set of data on international broadband deployment, we adopted two criteria to guide the selection of countries and communities. The first is *inclusivity*: We attempted to capture as full an international profile as possible, embracing communities from all parts of the world. The second is *data availability*: We included only communities for which a substantially complete set of the relevant information is available. These two criteria resulted in a dataset that exceeds the statutory minimum requirements of 25 countries and 75 communities, and includes communities from almost all countries with significant broadband deployment.³⁵

19. The BDIA also specifically requires that we collect data on “population size, population density, topography, and demographic profile.”³⁶ Accordingly, for each foreign community, we examine population size, population density, topography, and a number of additional criteria we include to give meaning to the term “demographic profile.” To assess what additional demographic or other factors to include in the information we collected for each community profile, we reviewed major public databases that collect economic, social, and demographic data, including the World Bank’s Development Indicators,³⁷ the International Telecommunication Union’s (ITU) World Telecommunication Indicators,³⁸ the OECD’s regional statistics database,³⁹ Eurostat’s regional statistics database,⁴⁰ and those maintained

³⁰ See, e.g., Merriam-Webster Dictionary *available at* <http://www.merriam-webster.com/dictionary/community>; Black’s Law Dictionary, 8th Ed. (2004).

³¹ See Verizon BDIA Comments at 4 (suggesting that we select the capital city (urban), suburb, and rural community in each country).

³² See COAT BDIA Comments at 2; Inclusive Tech BDIA Comments at 1.

³³ 47 U.S.C. § 1302(b).

³⁴ All three are ranked in the top fifteen countries as measured by GDP. Verizon BDIA Comments at 3-4.

³⁵ There are some differences in the countries included for each dataset contained in this Report. Those differences are primarily due to data availability. See Appendix B *infra*.

³⁶ 47 U.S.C. § 1302(b)(2).

³⁷ See <http://go.worldbank.org/U0FSM7AQ40>.

³⁸ See <http://www.itu.int/ITU-D/ict/publications/world/world.html>.

³⁹ See <http://oecd.org/gov/regional/statisticsindicators/explorer/>.

⁴⁰ See http://epp.eurostat.ec.europa.eu/portal/page/portal/region_cities/introduction.

by countries' national statistical agencies. We also looked at studies and existing national broadband plans from other countries to determine which indicators would reflect the factors that are typically expected to influence broadband adoption. Based on our review of these sources, we determined that three additional variables are particularly likely to be of importance in understanding international broadband service capability: (1) education within the community (percentage of labor force with tertiary education); (2) total income for the community (GDP, in current U.S. dollars, adjusted for purchasing power parity); and (3) income per capita within the community (GDP per capita, in current U.S. dollars adjusted for purchasing power parity).

20. The information in the dataset for the variables listed in paragraph 19 *supra*, which is generally set forth in Appendix D,⁴¹ is drawn mainly from two sources: the OECD's regional statistics⁴² and the European Commission's Eurostat regional data.⁴³ We note that data at the national level for the variables listed above are generally available annually. Community-level information, however, is collected less frequently. Accordingly, we provided the most recent publicly-available data (ranging from 2005-2008) for each variable in the community dataset.⁴⁴ Data for communities not covered by the OECD and Eurostat are drawn from individual government agencies, either through the national statistical agency, the communications ministry or communications regulator.⁴⁵

C. Other Relevant Similarities and Differences

21. In addition, the BDIA directs the Commission, for the foreign communities selected, to identify "relevant similarities and differences" for several criteria including, among others: the market structure, types of technologies, regulatory model, and other media available to consumers.⁴⁶ For each foreign country from which communities are included in the *IBDR*, Commission staff has collected, in Appendix E of this *IBDR*, information on topography; the regulatory environment, including national broadband plans; the market structure, including the number of competitors, broadband penetration, and the types of network technologies deployed; types of applications and services used; and other media available to consumers. In most cases, we have only been able to obtain relevant information at the national level for these criteria; however, we believe such information generally is applicable at the community level.⁴⁷

IV. CONCLUSION

22. In conjunction with the Commission's adoption of the *Sixth Broadband Deployment*

⁴¹ Information on topography is included in Appendix E of this *IBDR*. See *infra* ¶ 21 and Appendix E.

⁴² The OECD data are available at <http://stats.oecd.org>.

⁴³ See http://epp.eurostat.ec.europa.eu/portal/page/portal/region_cities/introduction.

⁴⁴ For the percentage of households with broadband, the Eurostat data are mostly from 2008, but a small number are from 2006 or 2007.

⁴⁵ See "Sources" in Appendix D *infra*. It is possible that communities may not be comparable sub-national units depending on the data source. Nevertheless, our demographic data and methodology attempt to address concerns raised by commenters such as AT&T, that encourage us to conduct "apples-to-apples" comparisons and that we account for a variety of different factors such as income, education, and age, among others, that may influence broadband deployment and adoption. AT&T BDIA Comments at 3.

⁴⁶ The listed criteria includes the number of competitors, the number of facilities-based operators, the types of technology deployed, applications and services enabled by those technologies, types of applications and services used, business and residential use of such services, and other media available to consumers. Section 103(b)(3) also directs the Commission to identify topography for selected foreign communities.

⁴⁷ See Appendix E *infra* (presenting national level information such as broadband penetration, topography, as well as specific criteria required by the BDIA including market structure, number of competitors, number of facilities-based providers, technologies deployed, regulatory model, and other media available to consumers).

Report, the release of this *IBDR* fulfills the obligation imposed by Section 1303 of the Broadband Data Improvement Act, which requires the Commission to include in its annual broadband deployment report “information comparing the extent of broadband service capability (including data transmission speeds and price for broadband service capability) in a total of 75 communities in at least 25 countries abroad for each of the data rate benchmarks for broadband service utilized by the Commission to reflect different speed tiers.”⁴⁸

V. ORDERING CLAUSE

23. IT IS ORDERED that, pursuant to Section 1303(b) of the Broadband Data Improvement Act, 47 U.S.C. § 1303(b), and pursuant to authority delegated to the International Bureau in Section 0.261 of the Commission's rules, 47 C.F.R. § 0.261, this *IBDR*, with its associated Appendices A-E, is ADOPTED.

FEDERAL COMMUNICATIONS COMMISSION

Mindel De La Torre
Chief, International Bureau

⁴⁸ 47 U.S.C. § 1303(b).

APPENDIX A: PUBLIC RECORD**Docket GN 09-47 (Broadband Data Improvement Act)****International Bureau Letters**

Letters were sent to regulators and government agencies in Australia, Austria, Belgium, Brazil, Canada, Chile, Croatia, Czech Republic, Denmark, Finland, France, Germany, Hong Kong, Hungary, Ireland, Israel, Italy, Japan, Jordan, Lithuania, Netherlands, New Zealand, Nigeria, Norway, Poland, Portugal, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, United Arab Emirates and United Kingdom. These letters may be retrieved through the Commission's Electronic Comment Filing System, under GN Docket No. 09-47.

Comments (April 10, 2009)

AT&T
BluePrint
Coalition of Organizations for Accessible Technology (COAT)
Comcast
Inclusive Technologies
Johannes Bauer
J. Scott Marcus
USTA
Verizon
XO

Reply Comments (April 17, 2009)

AT&T
Keith Mallinson
NATOA
NCTA
NYS CIO
NJ Division of Rate Counsel (NJ Rate)
Time Warner Cable (TWC)
Verizon

APPENDIX B: Countries Included in the *IBDR*

COUNTRIES	Appendix C: Broadband Price Dataset	Appendix D: Demographics Dataset	Appendix E: Market and Regulatory Background
Australia	X	X	X
Austria	X	X	X
Belgium	X	X	X
Bulgaria	X	X	X
Canada		X	X
Chile		X	X
Cyprus	X	X	X
Czech	X	X	X
Denmark	X	X	X
Estonia	X	X	X
Finland	X	X	X
France	X	X	X
Germany	X	X	X
Greece	X	X	X
Hong Kong	X	X	X
Hungary	X	X	X
Iceland	X	X	X
Ireland	X		X
Italy	X	X	X
Japan	X	X	X
Korea	X	X	X
Latvia	X	X	X
Lithuania	X	X	X
Luxemburg	X	X	X
Malta	X	X	X
Netherlands	X	X	X
Norway	X	X	X
Poland	X	X	X
Portugal	X	X	X
Romania	X	X	X
Singapore	X	X	X
Slovakia	X	X	X
Slovenia	X	X	X
Spain	X	X	X
Sweden	X	X	X
Taiwan		X	X
U.K.	X	X	X

APPENDIX C: Broadband Price Dataset

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
Australia	Telstra Bigpond	Incumbent	48%	Bigpond Cable Standard 200 MB	Cable	8Mbps/128kpbs		Aus Dollar	\$29.95	\$20.40	Self installation		\$15.75	Double play/ full service phone	12 months	No	200 MB	http://www.bigpond.com/home
	Telstra Bigpond	Incumbent		Bigpond Cable Standard 400 MB	Cable	8Mbps/128kpbs		Aus Dollar	\$39.95	\$27.21	Self installation		\$15.75	Double play/ full service phone	12 months	No	400 MB	
	Telstra Bigpond	Incumbent		Bigpond Liberty 12 GB	Cable	8Mbps/128kpbs		Aus Dollar	\$59.95	\$40.84	Self installation		\$15.75	Double play/ full service phone	12 months	No	12 GB	
	Telstra Bigpond	Incumbent		Bigpond Liberty 25 GB	Cable	8Mbps/128kpbs		Aus Dollar	\$79.95	\$54.46	Self installation		\$15.75	Double play/ full service phone	12 months	No	25 GB	
	Telstra Bigpond	Incumbent		Bigpond Cable Extreme Highspeed 200MB	Cable	Up to 30 Mbps in Sydney and Melbourne and up to 17 Mbps elsewhere		Aus Dollar	\$39.95	\$27.21	Self installation		\$15.75	Double play/ full service phone	12 months	No	200 MB	
	Telstra Bigpond	Incumbent		Bigpond Cable Extreme Highspeed 400MB	Cable	Up to 30 Mbps in Sydney and Melbourne and up to 17 Mbps elsewhere		Aus Dollar	\$49.95	\$34.03	Self installation		\$15.75	Double play/ full service phone	12 months	No	400 MB	
	Telstra Bigpond	Incumbent		Bigpond Liberty 12 GB	Cable	Up to 30 Mbps in Sydney and Melbourne and up to 17 Mbps elsewhere		Aus Dollar	\$69.95	\$47.65	Self installation		\$15.75	Double play/ full service phone	12 months	No	12 GB	
	Telstra Bigpond	Incumbent		Bigpond Liberty 25 GB	Cable	Up to 30 Mbps in Sydney and Melbourne and up to 17 Mbps elsewhere		Aus Dollar	\$89.95	\$61.27	Self installation		\$15.75	Double play/ full service phone	12 months	No	25 GB	
	Telstra Bigpond	Incumbent		Bigpond Liberty 60 GB	Cable	Up to 30 Mbps in Sydney and Melbourne and up to 17 Mbps elsewhere		Aus Dollar	\$129.95	\$88.52	Self installation		\$15.75	Double play/ full service phone	12 months	No	60 GB	
	Telstra Bigpond	Incumbent		ADSL Broadband 200 MB	ADSL	256/64kpbs		Aus Dollar	\$29.95	\$20.40	Self installation	\$29.95	\$25.75	Double play/ full service phone	12 months	No	200 MB	http://www.bigpond.com/home
	Telstra Bigpond	Incumbent		ADSL Broadband 12 GB	ADSL	256/64kpbs		Aus Dollar	\$59.95	\$40.84	Self installation	\$29.95	\$25.75	Double play/ full service phone	12 months	No	12 GB	http://www.internode.on.net/residential/broadband/adsl/standard/pricing
	Telstra Bigpond	Incumbent		ADSL Broadband 400 MB	ADSL	1500/256 kpbs		Aus Dollar	\$39.95	\$27.21	Self installation	\$29.95	\$25.75	Double play/ full service phone	12 months	No	400 MB	
	Telstra Bigpond	Incumbent		Bigpond Liberty 12 GB	ADSL	1500/256 kpbs		Aus Dollar	\$69.95	\$47.65	Self installation	\$29.95	\$25.75	Double play/ full service phone	12 months	No	12 GB	
	Telstra Bigpond	Incumbent		Bigpond Liberty 25 GB	ADSL	1500/256 kpbs		Aus Dollar	\$79.95	\$54.46	Self installation	\$29.95	\$25.75	Double play/ full service phone	12 months	No	25 GB	
	Telstra Bigpond	Incumbent		Bigpond Liberty 600 MB	ADSL	around 6 to 10 mbps or more		Aus Dollar	\$59.95	\$40.84	Self installation	\$29.95	\$25.75	Double play/ full service phone	12 months	No	600 MB	
	Telstra Bigpond	Incumbent		Bigpond Liberty 12 GB	ADSL	around 6 to 10 mbps or more		Aus Dollar	\$89.95	\$61.27	Self installation	\$29.95	\$25.75	Double play/ full service phone	12 months	No	12 GB	
	Telstra Bigpond	Incumbent		Bigpond Liberty 25 GB	ADSL	around 6 to 10 mbps or more		Aus Dollar	\$99.95	\$68.09	Self installation	\$29.95	\$25.75	Double play/ full service phone	12 months	No	25 GB	
	Telstra Bigpond	Incumbent		Bigpond Liberty 60 GB	ADSL	around 6 to 10 mbps or more		Aus Dollar	\$149.95	\$102.15	Self installation	\$29.95	\$25.75	Double play/ full service phone	12 months	No	60 GB	
Australia	Internode	Entrant		Home-256-Express	ADSL	256/64 kpbs		Aus Dollar	\$34.95	\$23.81	\$79	\$39.00	bring your own or pay \$99	No	24 months		5 GB	
	Internode	Entrant		Home-512-Starter	ADSL	512/128 kpbs		Aus Dollar	\$39.95	\$27.21	\$79	\$39.00	bring your own or pay \$99	No	24 months		5 GB	

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Internode	Entrant		Home -1500 -Explorer	ADSL	1500/256 kbps		Aus Dollar	\$49.95	\$34.03	\$79	\$39.00	bring your own or pay \$99	No	24 months		10 GB	
	Internode	Entrant		Home -1500- Advance	ADSL	1500/256 kbps		Aus Dollar	\$59.95	\$40.84	\$79	\$39.00	bring your own or pay \$99	No	24 months		20 GB	
Australia	Internode	Entrant		Home -1500- Boost	ADSL	1500/256 kbps		Aus Dollar	\$69.95	\$47.65	\$79	\$39.00	bring your own or pay \$99	No	24 months		40 GB	
	Internode	Entrant		Home-Extreme-Explorer	ADSL	Up to 24 MB/ 1 Mbps		Aus Dollar	\$39.95	\$27.21	\$79	\$39.00	bring your own or pay \$99	No	24 months		5 GB	
	Internode	Entrant		Home-Extreme- Starter	ADSL	Up to 24 MB/ 1 Mbps		Aus Dollar	\$49.95	\$34.03	\$79	\$39.00	bring your own or pay \$99	No	24 months		10 GB	
	Internode	Entrant		Home-Extreme-Value	ADSL	Up to 24 MB/ 1 Mbps		Aus Dollar	\$59.95	\$40.84	\$79	\$39.00	bring your own or pay \$99	No	24 months		25 GB	
	Internode	Entrant		Home-Extreme-Boost	ADSL	Up to 24 MB/ 1 Mbps		Aus Dollar	\$74.95	\$51.06	\$79	\$39.00	bring your own or pay \$99	No	24 months		40 GB	
	Internode	Entrant		Home-Extreme-Pro	ADSL	Up to 24 MB/ 1 Mbps		Aus Dollar	\$89.95	\$61.27	\$79	\$39.00	bring your own or pay \$99	No	24 months		55 GB	
	Internode	Entrant		Home-Extreme-Super	ADSL	Up to 24 MB/ 1 Mbps		Aus Dollar	\$119.95	\$81.71	\$79	\$39.00	bring your own or pay \$99	No	24 months		80 GB	
	Internode	Entrant		Home-Extreme-Elite	ADSL	Up to 24 MB/ 1 Mbps		Aus Dollar	\$149.95	\$102.15	\$79	\$39.00	bring your own or pay \$99	No	24 months		100 GB	
	Internode	Entrant		Home Naked Extreme - 5	ADSL	Up to 24 MB/ 1 Mbps		Aus Dollar	\$49.95	\$34.03	\$79	0	bring your own or pay \$99	No	24 months		5 GB	
	Internode	Entrant		Home Naked Extreme - 10	ADSL	Up to 24 MB/ 1 Mbps		Aus Dollar	\$59.95	\$40.84	\$79	0	bring your own or pay \$99	No	24 months		10 GB	
	Internode	Entrant		Home Naked Extreme - 25	ADSL	Up to 24 MB/ 1 Mbps		Aus Dollar	\$69.95	\$47.65	\$79	0	bring your own or pay \$99	No	24 months		25 GB	
	Internode	Entrant		Home Naked Extreme - 40	ADSL	Up to 24 MB/ 1 Mbps		Aus Dollar	\$84.95	\$57.87	\$79	0	bring your own or pay \$99	No	24 months		40 GB	
	Internode	Entrant		Home Naked Extreme - 55	ADSL	Up to 24 MB/ 1 Mbps		Aus Dollar	\$99.95	\$68.09	\$79	0	bring your own or pay \$99	No	24 months		55 GB	
	Internode	Entrant		Home Naked Extreme - 80	ADSL	Up to 24 MB/ 1 Mbps		Aus Dollar	\$129.95	\$88.52	\$79	0	bring your own or pay \$99	No	24 months		80 GB	
	Internode	Entrant		Home Naked Extreme - 100	ADSL	Up to 24 MB/ 1 Mbps		Aus Dollar	\$159.95	\$108.96	\$79	0	bring your own or pay \$99	No	24 months		100 GB	
Australia	Optus	Entrant	11%	Naked Broadband	Cable	64 kbps	Sydney, Melbourne and Brisbane.	Aus Dollar	\$59.00	\$40.19	\$248	0		No	24 months		14 GB	http://personal.optus.com.au/web/ocap/portal/portal?_nfpb=true&_page_label=Template_worHS&FP=/personal/inter/net/nakedbroadband&site=/personal/
	Optus	Entrant		Naked Broadband	Cable	128 kbps	Sydney, Melbourne and Brisbane.	Aus Dollar	\$79.00	\$53.81	\$248	0		No	24 months		30 GB	
	Optus	Entrant		Naked Broadband	Cable	128 kbps	Sydney, Melbourne and Brisbane.	Aus Dollar	\$109.00	\$74.25	\$248	0		No	24 months		60 GB	
	Optus	Entrant		Month to month broadband	Cable	64 kbps	Sydney, Melbourne and Brisbane.	Aus Dollar	\$237.89	\$162.05	\$148	0		Double play	month to month		4 GB	
	Optus	Entrant		Month to month broadband	Cable	64 kbps	Sydney, Melbourne and Brisbane.	Aus Dollar	\$247.89	\$168.86	\$148	0		Double play	month to month		7 GB	
	Optus	Entrant		Month to month broadband	Cable	128 kbps	Sydney, Melbourne and Brisbane.	Aus Dollar	\$267.89	\$182.49	\$148	0		Double play	month to month		15 GB	

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Optus	Entrant		Month to month broadband	Cable	128 kbps	Sydney, Melbourne and Brisbane.	Aus Dollar	\$297.89	\$202.92	\$148	0		Double play	month to month		30 GB	
Austria	Telecom Austria	Incumbent	42%	Aon Broadband Duo	DSL / WLAN	up to 8192 / 768 kbps	National	Euro	29.9	\$34.17	Self: 29.90; On-site: 131.00	Activation: 49.00; Manufacturing: 167.00	n/a. Can purchase wireless router for 39.90	DSL and WLAN (with separate mobile card)	18 Months	No		http://www.telekom.at/portal/site/telekom/menuitem.62d40831bc7a32bf224e160d3a041ca/?vgnextoid=6c1d80220d2c110VgnVCM100000230a14acRCRD
	Telecom Austria	Incumbent		Internet Booster (add on)	DSL	up to 16,384 / 1,024 kbps	National	Euro	9.9	\$11.31	none	none	none	Add on to DSL				
	Telecom Austria	Incumbent		Aon Flex (add on to bundle)	WLAN	up to 7.2 Mbps / 1.4 Mbps	National	Euro	7.9	\$9.03	none	Activation: 49.00;	none	Add on to Bundle	12 Months	No		
	Telecom Austria	Incumbent		Aon Pur	WLAN	up to 2048 kbps downstream, 384 kbps upstream	National	Euro	39.9	\$45.60	Self: 29.90; On-site: 131.00	Manufacturing: 167.00	Modem not included	No	n/a	No		
	Telecom Austria	Incumbent		Aon Pur	WLAN	up to 4096 kbps downstream, 512 kbps upstream	National	Euro	59.9	\$68.46	Self: 29.90; On-site: 131.00	Manufacturing: 167.00	Modem not included	No	n/a	No		
	Telecom Austria	Incumbent		Aon Kombi	DSL	up to 8 Mbps downstream and 786 kbps up	National	Euro	34.9	\$39.89	Self: 29.90; On-site: 131.00	Manufacturing: 167.00	Included	DSL/Phone	12 Months	No		
	Telecom Austria	Incumbent		Aon Super Kombi	DSL	up to 8 Mbps downstream and 768 kbps upstream	National	Euro	39.9	\$45.60	Self: 29.90; On-site: 131.00	Manufacturing: 167.00	Included	DSL/Phone/Cable	13 Months	No		
	Telecom Austria	Incumbent		Aon Blizz Light	FTTH	Down Stream 2 Mbps, upstream 2 Mbps	certain districts of Vienna (10, 11, 12, 16, 22 and 23).	Euro	29.9	\$34.17	none	none	none	No	n/a	No		
	Telecom Austria	Incumbent		Aon Blizz Pro	FTTH	10 Mbps / 10 Mbps	certain districts of Vienna (10, 11, 12, 16, 22 and 23).	Euro	39.9	\$45.60	none	Activation: 60.00	none	No	n/a	No		
Austria	Tele2	Entrant		Full Pipe! Extra	DSL	8192 Mbps / 768 kbps	National	Euro	24.9	\$28.46	Modem Activation: 25.00	Production Line: 29.90	Included	DSL/VOIP	12 Months		14.95 First 3 Months	http://www.tele2.at/volles-rohr-extra/privat/internet/volles-rohr-extra.html
	Tele2	Entrant		Full Pipe! XL	DSL	16 Mbps / 1 Mbps	National	Euro	39.9	\$45.60	Modem Activation: 25.00	Production Line: 29.90	Included	DSL/VOIP	12 Months		29.90 First 3 Months	
	Tele2	Entrant		Full Pipe! XL Under 30	DSL	16 Mbps / 1 Mbps	National	Euro	34.9	\$39.89	Modem Activation: 25.00	Production Line: 29.90	Included	DSL/VOIP	12 Months		24.90 First 3 Months	
	Tele2	Entrant		Full Pipe! XXL	DSL	20 Mbps / 1 Mbps	National	Euro	49.9	\$57.03	Modem Activation: 25.00	Production Line: 29.90	Included	DSL/VOIP	12 Months		39.90 First 3 Months	
Austria	UPC	Entrant		Chello Fun	Cable	8 Mbps / 786 kbps	National	Euro	22.9	\$26.17	Connection Fee: 59.90	Activation: 25.00;	Included	No	12 Months	No		http://www.upc.at/chello
	UPC	Entrant		Chello Fun & Phone	Cable	8 Mbps / 786 kbps	National	Euro	29.9	\$34.17	Connection Fee: 59.90	Activation: 25.00;	Included	DSL/VOIP	12 Months	No		
	UPC	Entrant		Chello Classic	Cable	25 Mbps / 1.5 Mbps	National	Euro	49	\$56.00	Connection Fee: 59.90	Activation: 25.00;	Included	No	12 Months	No		
	UPC	Entrant		Chello Student	Cable	25 Mbps / 1.5 Mbps	National	Euro	35	\$40.00	Connection Fee: 59.90	Activation: 25.00;	Included	No	12 Months	No		
	UPC	Entrant		Chello Plus	Cable	30 Mbps / 2 Mbps	National	Euro	69	\$78.86	Connection Fee: 59.90	Activation: 25.00;	Included	No	12 Months	No		
	UPC	Entrant		Fiber Power Ultra	FTTH	100 Mbps / 10 Mbps	Vienna - certain districts	Euro	74	\$84.57	none	none	none	No	12 Months	No		
	UPC	Entrant		mode ADSL Simple	DSL	8 Mbps / 786 kbps	National	Euro	12.9	\$14.74	Connection Fee: 59.90; On-site (if requested): 120	Activation: 25.00;	Included	No	12 Months	No		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	UPC	Entrant		inode ADSL Strong	DSL	16 Mbps / 1 Mbps	National	Euro	22.9	\$26.17	Connection Fee: 59.90; On-site (if requested): 120	Activation: 25.00;	Included	No	12 Months	No		
	UPC	Entrant		inode ADSL solo	DSL	8 Mbps / 786 kbps	National	Euro	28.9	\$33.03	Connection Fee: 59.90; On-site (if requested): 120	Activation: 25.00;	Included	No	12 Months	No		
Belgium	Belgacom	Incumbent	46%	Internet Badge	DSL	1000 kbps / 128 kbps	National	Euro	20	\$21.81	Self: Free; On-site: 129-229 (depending on number of devices)	Activation: 50.00	Included	No	12 Months	6 months at 10.00		http://www.belgacom.be/private/en/isp/dynamic/productCategory.jsp?derName=internet/
	Belgacom	Incumbent		Internet Light	DSL	4 Mbps / 256 kbps	National	Euro	31.55	\$34.41	Self: Free; On-site: 129-229 (depending on number of devices)	Activation: 50.00	Included	No	12 Months	No		
	Belgacom	Incumbent		Internet Go	DSL	12 Mbps / 1 Mbps	National	Euro	41.75	\$45.53	Self: Free; On-site: 129-229 (depending on number of devices)	Activation: 50.00	Included	No	12 Months	No		
	Belgacom	Incumbent		Internet Plus	DSL	18 Mbps / 1 Mbps	National	Euro	57.05	\$62.21	Self: Free; On-site: 129-229 (depending on number of devices)	Activation: 50.00	Included	No	12 Months	No		
Belgium	KPN Tele2 (previously Tele2)	Entrant		ADSL 1MB	DSL	1000 kbps / 256 kbps	National	Euro	19.9	\$21.70	Self: Free; On-site: 99 (depending on number of devices)	none	One time: 72	No	n/a	No		http://www.tele2.be/fr/internet/adsl4mb/tarifs/index.html/
	KPN Tele2 (previously Tele2)	Entrant		ADSL 4MB	DSL	4 Mbps / 256 kbps	National	Euro	29.9	\$32.61	Self: Free; On-site: 99 (depending on number of devices)	none	One time: 72	No	n/a	No		
	KPN Tele2 (previously Tele2)	Entrant		Pure ADSL 4MB	DSL	4 Mbps / 256 kbps	National	Euro	34.9	\$38.06	Self: Free; On-site: 99 (depending on number of devices)	none	One time: 72	No	n/a	1 year at 24.90		
	KPN Tele2 (previously Tele2)	Entrant		Pure ADSL 12MB	DSL	12 Mbps / 1 Mbps	National	Euro	44.9	\$48.96	Self: Free; On-site: 99 (depending on number of devices)	none	One time: 72	No	n/a	1 year at 34.90		
Belgium	Telenet	Entrant		BasicNet	Cable	1000 kbps / 128 kbps	National	Euro	20	\$21.81	Free - \$100	Activation: 50.00	Included	No	n/a	No		http://telenet.be/219/0/1/en/residential/Internet.html
	Telenet	Entrant		ComfortNet	Cable	6 Mbps / 256 kbps	National	Euro	30.64	\$33.41	Free - \$100	Activation: 50.00	Included	No	n/a	No		
	Telenet	Entrant		ExpressNet	Cable	15 Mbps / 512 kbps	National	Euro	42.91	\$46.79	Free - \$100	Activation: 50.00	Included	No	n/a	No		
	Telenet	Entrant		TurboNet	Cable	25 Mbps / 1 Mbps	National	Euro	61.32	\$66.87	Free - \$100	Activation: 50.00	Included	No	n/a	No		
Bulgaria	BTC Net	Incumbent	28%	BTK ADSL Tempo	DSL	12 Mbps / 1 Mbps	National	BGN	25	\$31.85	36	none	Included	No	12 Months	No		http://www.btc.bg/bg/residential/prices_and_services/adsl_internet
	BTC Net	Incumbent		BTK ADSL Start	DSL	6 Mbps / 512 kbps	National	BGN	20	\$25.48	36	none	Included	No	12 Months	No		
	BTC Net	Incumbent		BTC ADSL City	DSL	10 Mbps / 1 Mbps	Parts of Sofia	BGN	15	\$19.11	36	none	Included	No	12 Months	No		
Bulgaria	Cable Tel	Entrant		CableTELLAN Mini	Cable/FTTH Hybrid	768 kbps down international (1.5 Mbps down national)	Haskovo, Sliven, Razgrad, Lovech, Targovishte, Dobrich, Nessebar and Stara Zagora	BGN	15	\$19.11	n/a	n/a	Included	No	n/a	No		http://www.cabletel.bg/?p=internet&lng=en/
	Cable Tel	Entrant		CableTELLAN Alfa	Cable/FTTH Hybrid	3 Mbps down international (6 Mbps down national)	Haskovo, Sliven, Razgrad, Lovech, Targovishte, Dobrich, Nessebar and Stara Zagora	BGN	19.9	\$25.35	n/a	n/a	Included	No	n/a	No		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Cable Tel	Entrant		CableTEL.LAN Bravo	Cable/FTTH Hybrid	4 Mbps down international (8 Mbps down national)	Haskovo, Sliven, Razgrad, Lovech, Targovishte, Dobrich, Nessebar and Stara Zagora	BGN	29	\$36.94	n/a	n/a	Included	No	n/a	No		
	Cable Tel	Entrant		CableTEL.LAN Express	Cable/FTTH Hybrid	5 Mbps down international (10 Mbps down national)	Haskovo, Sliven, Razgrad, Lovech, Targovishte, Dobrich, Nessebar and Stara Zagora	BGN	39	\$49.68	n/a	n/a	Included	No	n/a	No		
	Cable Tel	Entrant		CableTEL.LAN Ultra	Cable/FTTH Hybrid	6 Mbps down international (12 Mbps down national)	Haskovo, Sliven, Razgrad, Lovech, Targovishte, Dobrich, Nessebar and Stara Zagora	BGN	49	\$62.42	n/a	n/a	Included	No	n/a	No		
	Cable Tel	Entrant		CableTEL.LAN Alfa (Sofia)	Cable/FTTH Hybrid	8 Mbps down (20 Mbps w/ Peering)	Parts of Sofia	BGN	19.9	\$25.35	n/a	n/a	Included	No	n/a	No		
	Cable Tel	Entrant		CableTEL.LAN Bravo (Sofia)	Cable/FTTH Hybrid	12 Mbps down (30 Mbps w/ Peering)	Parts of Sofia	BGN	29	\$36.94	n/a	n/a	Included	No	n/a	No		
Bulgaria	Cable Tel	Entrant		CableTEL.LAN Express (Sofia)	Cable/FTTH Hybrid	16 Mbps down (40 Mbps w/ Peering)	Parts of Sofia	BGN	39	\$49.68	n/a	n/a	Included	No	n/a	No		
	Cable Tel	Entrant		CableTEL.LAN Ultra (Sofia)	Cable/FTTH Hybrid	16 Mbps down (50 Mbps w/ Peering)	Parts of Sofia	BGN	49	\$62.42	n/a	n/a	Included	No	n/a	No		
	Cable Tel	Entrant		CableTEL.LAN Mini (Dimitrograd and Kardjali)	Cable/FTTH Hybrid	256 kbps down	Dimitrograd and Kardjali	BGN	15	\$19.11	n/a	n/a	Included	No	n/a	No		
	Cable Tel	Entrant		CableTEL.LAN Alfa (Dimitrograd and Kardjali)	Cable/FTTH Hybrid	2 Mbps down	Dimitrograd and Kardjali	BGN	19.9	\$25.35	n/a	n/a	Included	No	n/a	No		
	Cable Tel	Entrant		CableTEL.LAN Bravo (Dimitrograd and Kardjali)	Cable/FTTH Hybrid	3 Mbps down	Dimitrograd and Kardjali	BGN	29	\$36.94	n/a	n/a	Included	No	n/a	No		
	Cable Tel	Entrant		CableTEL.LAN Express (Dimitrograd and Kardjali)	Cable/FTTH Hybrid	4 Mbps down	Dimitrograd and Kardjali	BGN	39	\$49.68	n/a	n/a	Included	No	n/a	No		
	Cable Tel	Entrant		CableTEL.LAN Ultra (Dimitrograd and Kardjali)	Cable/FTTH Hybrid	6 Mbps down	Dimitrograd and Kardjali	BGN	49.9	\$63.57	n/a	n/a	Included	No	n/a	No		
	Cable Tel	Entrant		CableTEL.NET Alfa	Cable/FTTH Hybrid	1 Mbps down	National	BGN	19.9	\$25.35	n/a	n/a	Included	Add-on to cable	n/a	No		
	Cable Tel	Entrant		CableTEL.NET Bravo	Cable/FTTH Hybrid	2 Mbps down	National	BGN	29	\$36.94	n/a	n/a	Included	Add-on to cable	n/a	No		
	Cable Tel	Entrant		CableTEL.NET Express	Cable/FTTH Hybrid	3 Mbps down	National	BGN	39	\$49.68	n/a	n/a	Included	Add-on to cable	n/a	No		
	Cable Tel	Entrant		CableTEL.NET Ultra	Cable/FTTH Hybrid	4 Mbps down	National	BGN	49.9	\$63.57	n/a	n/a	Included	Add-on to cable	n/a	No		
	Cable Tel	Entrant		CableTEL.NET Alfa (Sofia)	Cable/FTTH Hybrid	6 Mbps down	Parts of Sofia	BGN	19.9	\$25.35	n/a	n/a	Included	Add-on to cable	n/a	No		
	Cable Tel	Entrant		CableTEL.NET Bravo (Sofia)	Cable/FTTH Hybrid	8 Mbps down	Parts of Sofia	BGN	29	\$36.94	n/a	n/a	Included	Add-on to cable	n/a	No		
	Cable Tel	Entrant		CableTEL.NET Express (Sofia)	Cable/FTTH Hybrid	10 Mbps down	Parts of Sofia	BGN	39	\$49.68	n/a	n/a	Included	Add-on to cable	n/a	No		
	Cable Tel	Entrant		CableTEL.NET Ultra (Sofia)	Cable/FTTH Hybrid	12 Mbps down	Parts of Sofia	BGN	49.9	\$63.57	n/a	n/a	Included	Add-on to cable	n/a	No		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Cable Tel	Entrant		CableTEL.NET Alfa (Shumen, Burgas and Sliven)	Cable/FTTH Hybrid	2 Mbps down	Shumen, Burgas and Sliven	BGN	19.9	\$25.35	n/a	n/a	Included	Add-on to cable	n/a	No		
	Cable Tel	Entrant		CableTEL.NET Bravo (Shumen, Burgas and Sliven)	Cable/FTTH Hybrid	3 Mbps down	Shumen, Burgas and Sliven	BGN	29	\$36.94	n/a	n/a	Included	Add-on to cable	n/a	No		
	Cable Tel	Entrant		CableTEL.NET Express (Shumen, Burgas and Sliven)	Cable/FTTH Hybrid	4 Mbps down	Shumen, Burgas and Sliven	BGN	39	\$49.68	n/a	n/a	Included	Add-on to cable	n/a	No		
	Cable Tel	Entrant		CableTEL.NET Ultra (Shumen, Burgas and Sliven)	Cable/FTTH Hybrid	5 Mbps down	Shumen, Burgas and Sliven	BGN	49.9	\$63.57	n/a	n/a	Included	Add-on to cable	n/a	No		
Bulgaria	Eurocom	Entrant		Intro	Cable	6 Mbps (1:12 upload:download ratio)	National	Euro	17.6	\$22.42	Free	none	Included	No	12 Months	No		http://ekb.bg/mod_newinfo_2_4.html
	Eurocom	Entrant		+Intro	Cable	10 Mbps (1:13 upload:download ratio)	National	Euro	22.4	\$28.54	Free	none	Included	No	12 Months	No		
	Eurocom	Entrant		Optima	Cable	15 Mbps (1:13 upload:download ratio)	National	Euro	28	\$35.67	Free	none	Included	No	12 Months	No		
Bulgaria	Eurocom	Entrant		Maxima	Cable	20 Mbps (1:13 upload:download ratio)	National	Euro	36	\$45.86	Free	none	Included	No	12 Months	No		
	Eurocom	Entrant		LAN "General"	Cable	20 Mbps down domestic, 5 Mbps international	Parts of Sofia	Euro	20	\$25.48	Free	none	Included	No	12 Months	10.00 for first 6 months		
	Eurocom	Entrant		LAN "Standard"	Cable	30 Mbps down domestic, 10 Mbps international	Parts of Sofia	Euro	30	\$38.22	Free	none	Included	No	12 Months	15.00 for first 6 months		
	Eurocom	Entrant		LAN "Extra"	Cable	45 Mbps down domestic, 15 Mbps international	Parts of Sofia	Euro	50	\$63.69	Free	none	Included	No	12 Months	25.00 for first 6 months		
Bulgaria	Net is Sat	Entrant		City Connect	FTTH	25 Mbps down	Parts of Sofia	Euro	24.9	\$31.72	Free	n/a	Purchase for 65.00	FTTH/VOIP (limited)/IPTV (limited)	month-month	Pay for 8 months, get 4 free. Prepay 6, get 6 free.		http://www.netissat.bg/end/content/view/14/47
	Net is Sat	Entrant		City Connect	FTTH	40 Mbps down	Parts of Sofia	Euro	29.9	\$38.09	Free	n/a	Purchase for 65.00	FTTH/VOIP (limited)/IPTV (limited)	month-month	Pay for 8 months, get 4 free. Prepay 6, get 6 free.		
	Powernet	Entrant		Traffic Mania 19	FTTH	10 Mbps (1:4 upload:download ratio)	Parts of Sofia	Euro	19	\$24.20	n/a	n/a	n/a	FTTH/IPTV (limited)	month-month	prepay 5 months and get 6 months; prepay 8 months and get 12 months		http://www.powernet.bg/bg/home_services/
Bulgaria	Powernet	Entrant		Traffic Mania 25	FTTH	50 Mbps (1:4 upload:download ratio)	Parts of Sofia	Euro	25	\$31.85	n/a	n/a	n/a	FTTH/IPTV (limited)	month-month	prepay 5 months and get 6 months; prepay 8 months and get 12 months		
	Powernet	Entrant		Traffic Mania 36	FTTH	72 Mbps (1:4 upload:download ratio)	Parts of Sofia	Euro	36	\$45.86	n/a	n/a	n/a	FTTH/IPTV (limited)	month-month	prepay 5 months and get 6 months; prepay 8 months and get 12 months		
Bulgaria	Spectrum Net (Pon)	Entrant		Plus	FTTH	Domestic: (50 Mbps/50 Mbps); International: (50 Mbps/10 Mbps)	Parts of Sofia, Barna, and Burgas	Euro	29.9	\$38.09	Free	n/a	n/a	No	n/a	No		http://www.pon.bg/
	Spectrum Net (Pon)	Entrant		Plus Double	FTTH	Domestic: (50 Mbps/50 Mbps); International: (50 Mbps/10 Mbps)	Parts of Sofia, Barna, and Burgas	Euro	39.9	\$50.83	Free	n/a	n/a	FTTH/IPTV	n/a	No		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Spectrum Net (Pon)	Entrant		Plus Triple	FTTH	Domestic: (50 Mbps/50 Mbps); International: (50 Mbps/10 Mbps)	Parts of Sofia, Barna, and Burgas	Euro	55.9	\$71.21	Free	n/a	n/a	FTTH/IPTV/VOIP (limited)	n/a	No		
	Spectrum Net (Pon)	Entrant		Power	FTTH	Domestic: (70 Mbps/70 Mbps); International: (70 Mbps/20 Mbps)	Parts of Sofia, Barna, and Burgas	Euro	39.9	\$50.83	Free	n/a	n/a	No	n/a	No		
	Spectrum Net (Pon)	Entrant		Power Double	FTTH	Domestic: (70 Mbps/70 Mbps); International: (70 Mbps/20 Mbps)	Parts of Sofia, Barna, and Burgas	Euro	55.9	\$71.21	Free	n/a	n/a	FTTH/IPTV	n/a	No		
	Spectrum Net (Pon)	Entrant		Power Triple	FTTH	Domestic: (70 Mbps/70 Mbps); International: (70 Mbps/20 Mbps)	Parts of Sofia, Barna, and Burgas	Euro	59.9	\$76.31	Free	n/a	n/a	FTTH/IPTV/VOIP (limited)	n/a	No		
	Spectrum Net (Pon)	Entrant		Premium	FTTH	Domestic: (100 Mbps/100 Mbps); International: (100 Mbps/40 Mbps)	Parts of Sofia, Barna, and Burgas	Euro	59.9	\$76.31	Free	n/a	n/a	No	n/a	No		
	Spectrum Net (Pon)	Entrant		Premium Double	FTTH	Domestic: (100 Mbps/100 Mbps); International: (100 Mbps/40 Mbps)	Parts of Sofia, Barna, and Burgas	Euro	75.9	\$96.69	Free	n/a	n/a	FTTH/IPTV	n/a	No		
	Spectrum Net (Pon)	Entrant		Premium Triple	FTTH	Domestic: (100 Mbps/100 Mbps); International: (100 Mbps/40 Mbps)	Parts of Sofia, Barna, and Burgas	Euro	79.9	\$101.78	Free	n/a	n/a	FTTH/IPTV/VOIP (limited)	n/a	No		
Cyprus	Cytanet	Incumbent	63%	NetRunner Home512	DSL	Up to 512/192kbps	National	Euro	26.45	\$59.30	79.59	unspecified line rental and ISP connection fee	Included	No	month-month	some discounts if you pay for a full year		http://www.cytanet.com.cy/Services/pricelist
	Cytanet	Incumbent		NetRunner Home1000	DSL	1024/256kbps	National	Euro	33.36	\$74.80	79.59	unspecified line rental and ISP connection fee	Included	No	month-month	some discounts if you pay for a full year		
	Cytanet	Incumbent		NetRunner Home2000	DSL	2048/384kbps	National	Euro	43.7	\$97.98	79.59	unspecified line rental and ISP connection fee	Included	No	month-month	some discounts if you pay for a full year		
	Cytanet	Incumbent		NetRunner Home4000	DSL	4096/384kbps	National	Euro	38	\$85.20	79.59	unspecified line rental and ISP connection fee	Included	No	month-month	some discounts if you pay for a full year		
Czech Republic	Telefonica O2	Incumbent	33%	O2 Internet	DSL	8 Mbps / 512 kbps	National	CZK	750	\$50.16	n/a	Activation: 1.00	purchase for 990.00	No	24 month	No		http://www.cz.o2.com/osobni/internet/vsechna_internetova_prijemi/index.html
	Telefonica O2	Incumbent		O2 Internet Plus	DSL	16 Mbps / 512 kbps	National	CZK	900	\$60.20	n/a	Activation: 1.00	purchase for 990.01	No	24 month	No		
	Telefonica O2	Incumbent		O2 Internet Pro	DSL	16 Mbps / 786 kbps	National	CZK	1050	\$70.23	n/a	Activation: 1.00	purchase for 990.02	No	24 month	No		
Czech Republic	GTS Novera	Entrant		DSL Fun (aggregation - 1:50)	DSL	8 Mbps / 512 kbps	National	CZK	470.05	\$31.44	Self: 178.50; "small" installation: 1547.00; "large" installation: 2380.00	none	Various modems available. Basic: 1.19 w/ 18 mo. Contract; 708.05 w/ 12 mo. Contract; 946.05 w/ no contract	No	month-month	Yes (reg. price unknown)		http://www.gtsnovera.cz/en/products/dsl/novera_dsl.shtml/
	GTS Novera	Entrant		DSL Fun (aggregation - 1:50)	DSL	16 Mbps / 768 kbps	National	CZK	708.05	\$47.36	Self: 178.50; "small" installation: 1547.00; "large" installation: 2380.00	none	Various modems available. Basic: 1.19 w/ 18 mo. Contract; 708.05 w/ 12 mo. Contract; 946.05 w/ no contract	No	month-month	Yes (reg. price unknown)		
	GTS Novera	Entrant		DSL Profi (aggregation - 1:20)	DSL	8 Mbps / 512 kbps	National	CZK	1184.05	\$79.20	Self: 178.50; "small" installation: 1547.00; "large" installation: 2380.00	none	Various modems available. Basic: 1.19 w/ 18 mo. Contract; 708.05 w/ 12 mo. Contract; 946.05 w/ no contract	No	month-month	Yes (reg. price unknown)		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges Including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	GTS Novera	Entrant		DSL Profi (aggregation - 1:20)	DSL	16 Mbps / 768 kbps	National	CZK	2017.05	\$134.91	Self: 178.50; "small" installation: 1547.00; "large" installation: 2380.00	none	Various modems available. Basic: 1.19 w/ 18 mo. Contract; 708.05 w/ 12 mo. Contract; 946.05 w/ no contract	No	month-month	Yes (reg. price unknown)		
Czech Republic	Radiokomunikace	Entrant		Premium ADSL	DSL	8192 / 512 kbps	National	CZK	469	\$31.37	Self: free; "small" installation: 1796.90; "large" installation: 2986.90	none	purchase for 699.00 (basic modem)	No	n/a	No		http://www.radiokomunikace.cz/doma/snosti/w/projekt-k-internetu/premium-adsl/popis-sluzby.html/
	Radiokomunikace	Entrant		Premium ADSL	DSL	20480 / 1024 kbps	National	CZK	699	\$46.75	Self: free; "small" installation: 1796.90; "large" installation: 2986.90	none	purchase for 699.00 (basic modem)	No	n/a	No		
	Radiokomunikace	Entrant		Business 2Line	DSL	2048 / 512 kbps	National	CZK	1773	\$118.59	Self: free; "small" installation: 1796.90; "large" installation: 2986.90	none	purchase for 699.00 (basic modem)	No	n/a	No		
	Radiokomunikace	Entrant		Business 2Line	DSL	4096 / 512 kbps	National	CZK	2011	\$134.51	Self: free; "small" installation: 1796.90; "large" installation: 2986.90	none	purchase for 699.00 (basic modem)	No	n/a	No		
	Radiokomunikace	Entrant		Business 2Line	DSL	6144 / 512 kbps	National	CZK	2368	\$158.38	Self: free; "small" installation: 1796.90; "large" installation: 2986.90	none	purchase for 699.00 (basic modem)	No	n/a	No		
	Radiokomunikace	Entrant		Classic ADSL	DSL	8192 / 512 kbps	National	CZK	469	\$31.37	installation: 1796.90; "large" installation: 2986.90	none	purchase for 699.00 (basic modem)	No	n/a	No		
	Radiokomunikace	Entrant		Classic ADSL	DSL	16384 / 768 kbps	National	CZK	699	\$46.75	Self: free; "small" installation: 1796.90; "large" installation: 2986.90	none	purchase for 699.00 (basic modem)	No	n/a	No		
	Radiokomunikace	Entrant		Premium Sky	DSL	512 / 128 kbps	National	CZK	713	\$47.69	Self: free; "small" installation: 1796.90; "large" installation: 2986.90	none	purchase for 699.00 (basic modem)	No	n/a	No		
	Radiokomunikace	Entrant		Premium Sky	DSL	1024 / 256 kbps	National	CZK	832	\$55.65	Self: free; "small" installation: 1796.90; "large" installation: 2986.90	none	purchase for 699.00 (basic modem)	No	n/a	No		
Czech Republic	T-Mobile			Internet Standard	DSL	8192 / 512 kbps	National	CZK	474.81	\$31.76	n/a	n/a	purchase for 299.00 (basic modem)	No	24 months	No		http://t-mobile.cz/Web/Business/Internet/inter-net-adsl.aspx/
	T-Mobile			Internet Premium	DSL	16384 / 768 kbps	National	CZK	712.81	\$47.68	n/a	n/a	purchase for 299.00 (basic modem)	No	24 months	No		
Czech Republic	UPC	Entrant		10M	Cable	10 Mbps / 1 Mbps	National	CZK	490	\$32.77	Installation: 1500.00; Connection fee: 1200.00	none	Deposit: 2000.00	No	12 months (unclear)	First 8 months, pay 50% standard price; Installation: 1.00; Connection: 250.00; Modem - free rental		http://www.upc.cz/internet/cena/
	UPC	Entrant		30M	Cable	30 Mbps / 1.5 Mbps	National	CZK	850	\$56.85	Installation: 1500.00; Connection fee: 1200.00	none	Deposit: 2000.00	No	12 months (unclear)	Pay 650.00 after first 6 months. Installation: 1.00; Connection: 250.00; Modem - free rental		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download / upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	UPC	Entrant		Easy	Cable	15 Mbps / 1.5 Mbps	National	CZK	570	\$38.12	Installation: 1500.00; Connection fee: 1200.00	none	Deposit: 2000.00	No	12 months (unclear)	No		
	UPC	Entrant		Light	Cable	20 Mbps / 1.5 Mbps	National	CZK	794	\$53.11	Installation: 1500.00; Connection fee: 1200.00	none	Deposit: 2000.00	No	12 months (unclear)	No		
Czech Republic	UPC	Entrant		Classic	Cable	25 Mbps / 1 Mbps	National	CZK	1239	\$82.87	Installation: 1500.00; Connection fee: 1200.00	none	Deposit: 2000.00	No	12 months (unclear)	No		
	UPC	Entrant		Extreme	Cable	30 Mbps / 1.5 Mbps	National	CZK	1693	\$113.24	Installation: 1500.00; Connection fee: 1200.00	none	Deposit: 2000.00	No	12 months (unclear)	No		
	UPC	Entrant		Professional	Cable	30 Mbps / 1.5 Mbps	National	CZK	4548	\$304.19	Installation: 1500.00; Connection fee: 1200.00	none	Deposit: 2000.00	No	12 months (unclear)	No		
Denmark	TDC	Incumbent	58%	(no name)	DSL	4 Mbps / 128 kbps	National	DKK	244	\$27.57	Self: Free	none	n/a	No	6 month min	No		http://privat.tdc.dk/element.php?dogetag=IS_p_int_hjem_pr/
	TDC	Incumbent		(no name)	DSL	10 Mbps / 1 Mbps	National	DKK	314	\$35.48	Self: Free	none	n/a	No	6 month min	No		
	TDC	Incumbent		(no name)	DSL	20 Mbps / 1 Mbps	National	DKK	363	\$41.02	Self: Free	none	n/a	No	6 month min	No		
Denmark	Cybercity (Telenor)	Entrant		Small	DSL	2 Mbps / 512 kbps	National	DKK	169	\$19.10	n/a	none	n/a	No	n/a	No		http://www.telenor.dk/privat/bredbaand/
	Cybercity (Telenor)	Entrant		Medium	DSL	6 Mbps / 512 kbps	National	DKK	199	\$22.49	n/a	none	n/a	No	n/a	No		
	Cybercity (Telenor)	Entrant		Large	DSL	10 Mbps / 1 Mbps	National	DKK	249	\$28.14	n/a	none	n/a	No	n/a	No		
	Cybercity (Telenor)	Entrant		Extra Large	DSL	20 Mbps / 1 Mbps	National	DKK	299	\$33.79	n/a	none	n/a	No	n/a	No		
Denmark	Dansk Kabel TV (part of TDC)	Entrant		Low Speed	Cable	512 kbps / 256 kbps	National	DKK	99	\$11.19	Self: Free; On-Site: 695	none	n/a	No	n/a	No		http://www.danskabeltv.dk/bredbaand/priser/
	Dansk Kabel TV (part of TDC)	Entrant			Cable	3 Mbps / 512 kbps	National	DKK	169	\$19.10	Self: Free; On-Site: 695	none	n/a	No	n/a	No		
	Dansk Kabel TV (part of TDC)	Entrant		Medium Speed	Cable	4 Mbps / 256 kbps	National	DKK	189	\$21.36	Self: Free; On-Site: 695	none	n/a	No	n/a	No		
	Dansk Kabel TV (part of TDC)	Entrant			Cable	6 Mbps / 1 Mbps	National	DKK	209	\$23.62	Self: Free; On-Site: 695	none	n/a	No	n/a	No		
	Dansk Kabel TV (part of TDC)	Entrant			Cable	6 Mbps / 2 Mbps	National	DKK	249	\$28.14	Self: Free; On-Site: 695	none	n/a	No	n/a	No		
	Dansk Kabel TV (part of TDC)	Entrant		High Speed	Cable	10 Mbps / 1 Mbps	National	DKK	299	\$33.79	Self: Free; On-Site: 695	none	n/a	No	n/a	No		
	Dansk Kabel TV (part of TDC)	Entrant			Cable	8 Mbps / 2 Mbps	National	DKK	349	\$39.44	Self: Free; On-Site: 695	none	n/a	No	n/a	No		
	Dansk Kabel TV (part of TDC)	Entrant			Cable	12 Mbps / 2 Mbps	National	DKK	399	\$45.09	Self: Free; On-Site: 695	none	n/a	No	n/a	No		
Denmark	Telia-Stofa	Entrant		FlatRate	DSL	2 Mbps / 384 kbps	National	DKK	149	\$16.84	Self: Free; Computer Installation: 499	none	n/a	No	n/a	No		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Telia-Stofa	Entrant			DSL	4 Mbps / 384 kbps	National	DKK	199	\$22.49	Self: Free; Computer Installation: 499	none	n/a	No	n/a	No		
	Telia-Stofa	Entrant			DSL	6 Mbps / 384 kbps	National	DKK	239	\$27.01	Self: Free; Computer Installation: 499	none	n/a	No	n/a	No		
	Telia-Stofa	Entrant			DSL	12 Mbps / 512 kbps	National	DKK	279	\$31.53	Self: Free; Computer Installation: 499	none	n/a	No	n/a	No		
Denmark	Telia-Stofa	Entrant			DSL	25 Mbps / 1 Mbps	National	DKK	299	\$33.79	Self: Free; Computer Installation: 499	none	n/a	No	n/a	No		
	Telia-Stofa	Entrant			DSL	50 Mbps / 2 Mbps	National	DKK	399	\$45.09	Self: Free; Computer Installation: 499	none	n/a	No	n/a	No		
	Telia-Stofa	Entrant		FlexRate	DSL	4 Mbps / 384 kbps	National	DKK	300	\$33.90	Self: Free; Computer Installation: 499	none	n/a	No	n/a	No		
Estonia	Elion	Incumbent	53%	Start	DSL	1 Mbps / 1 Mbps	National	EEK	259	\$26.83	n/a	n/a	n/a	No	n/a	No		http://www.elion.ee/www/main?screenid=html.citizen-profile.5561&locale=est
	Elion	Incumbent		Kodulahendus	DSL	4 Mbps / 1 Mbps	National	EEK	401	\$41.53	n/a	n/a	n/a	No	n/a	No		
	Elion	Incumbent		Kodulahendus	DSL	12 Mbps / 1 Mbps	National	EEK	462	\$47.85	n/a	n/a	n/a	No	n/a	No		
Estonia	Starman	Entrant		Home Internet	Cable	2 Mbps / 250 kbps	National	EEK	299	\$30.97	router installation: 180	private home network subscription fee: 5900, non-	n/a	No	n/a	No		www.starman.ee/teenused/internet/
	Starman	Entrant		Mini Internet	Cable	500 kbps / 100 kbps	National	EEK	199	\$20.61	router installation: 180	private home network subscription fee: 5900, non-	n/a	No	n/a	No		
Estonia	STV	Entrant		STV Mikro	Cable	256 kbps / 64 kbps	Tallinn	EEK	141	\$14.60	n/a	n/a	Purchase: 599/month (new), 299/month (used)	No	n/a	No		http://stv.ee/content/est/83/225
	STV	Entrant		STV Mini	Cable	2 Mbps / 256 kbps	Tallinn	EEK	191	\$19.78	n/a	n/a	Purchase: 599/month (new), 299/month (used)	No	n/a	No		
	STV	Entrant		STV Kodu	Cable	3 Mbps / 256 kbps	Tallinn	EEK	241	\$24.96	n/a	n/a	Purchase: 599/month (new), 299/month (used)	No	n/a	No		
	STV	Entrant		STV Kodu "X"	Cable	4 Mbps / 512 kbps	Tallinn	EEK	291	\$30.14	n/a	n/a	Purchase: 599/month (new), 299/month (used)	No	n/a	No		
	STV	Entrant		STV Kodu +	Cable	5 Mbps / 512 kbps	Tallinn	EEK	341	\$35.32	n/a	n/a	Purchase: 599/month (new), 299/month (used)	No	n/a	No		
	STV	Entrant		STV Pro	Cable	6 Mbps / 512 kbps	Tallinn	EEK	391	\$40.50	n/a	n/a	Purchase: 599/month (new), 299/month (used)	No	n/a	No		
	STV	Entrant		Saturn Mini	FTTH	1 Mbps / 1 Mbps	Tallinn	EEK	149	\$15.43	n/a	n/a	Purchase: 599/month (new), 299/month (used)	No	n/a	No		
	STV	Entrant		Saturn Neo	FTTH	5 Mbps / 5 Mbps	Tallinn	EEK	199	\$20.61	n/a	n/a	Purchase: 599/month (new), 299/month (used)	No	n/a	No		
	STV	Entrant		Saturn Kodu	FTTH	10 Mbps / 10 Mbps	Tallinn	EEK	299	\$30.97	n/a	n/a	Purchase: 599/month (new), 299/month (used)	No	n/a	No		
Finland	Elisa	Incumbent	34.0%**	Elisa broadband	Cable	600 kbps/600 kbps	Joensuu, Jyväskylä, Lehmossa, Riihimäki, Uusima	Euro	17.9	\$16.93		49						

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Elisa	Incumbent		Elisa broadband	Cable	1.2 Mbps/600 Kbps	Joensuu, Jyväskylä, Lehmossa, Riihimäki, Uusimaa	Euro	21.9	\$20.72	49							
	Elisa	Incumbent		Elisa broadband	Cable	3Mbps/600 kbps	Joensuu, Jyväskylä, Lehmossa, Riihimäki, Uusimaa	Euro	27.9	\$26.40	49							
	Elisa	Incumbent		Elisa broadband (no new sales)	Cable	5Mbps/700 kbps	Joensuu, Jyväskylä, Lehmossa, Riihimäki, Uusimaa	Euro	34.9	\$33.02	49							
	Elisa	Incumbent		Elisa broadband	Cable	10Mbps/1Mbps	Joensuu, Jyväskylä, Lehmossa, Riihimäki, Uusimaa	Euro	34.9	\$33.02	49							
Finland	Elisa	Incumbent		Elisa broadband	Cable	30Mbps/1Mbps	Joensuu, Jyväskylä, Lehmossa, Riihimäki, Uusimaa	Euro	39.9	\$37.75	49							
	Elisa	Incumbent		Elisa Super	FTTH	1 Mbps/1 Mbps		Euro	21.9	\$20.72	49							
	Elisa	Incumbent		Elisa Super	FTTH	5 Mbps/ 5 Mbps		Euro	24.9	\$23.56	49							
	Elisa	Incumbent		Elisa Super	FTTH	10Mbps/10Mbps		Euro	32.9	\$31.13	49							
	Elisa	Incumbent		Elisa Super	FTTH	50Mbps/ 10Mbps		Euro	37.9	\$35.86	49							
	Elisa	Incumbent		Elisa Super	FTTH	100M bps/ 10Mbps		Euro	42.9	\$40.59	49							
	Elisa	Incumbent		Elisa Super	Cable	1Mbps/1Mbps		Euro	21.9	\$20.72	49							
	Elisa	Incumbent		Elisa Super	Cable	5Mbps/1Mbps		Euro	24.9	\$23.56	49							
	Elisa	Incumbent		Elisa Super	Cable	10Mbps/1Mbps		Euro	32.9	\$31.13	49							
	Elisa	Incumbent		Elisa Super	Cable	24M bps/1Mbps		Euro	37.9	\$35.86	49							
Finland	Sonera	Incumbent	29.0%**	Extra Normal	ADSL	1Mbps/1Mbps	Availability and prices vary by locality	Euro	22.9	\$21.67								
	Sonera	Incumbent		Extra Normal	ADSL	10 Mbps/1Mbps	Availability and prices vary by locality	Euro	32.9	\$31.13								
	Sonera	Incumbent		Extra Normal	ADSL	24 Mbps/ 2 Mbps	Availability and prices vary by locality	Euro	42.9	\$40.59								
	Sonera	Incumbent		Extra C	FTTH	2 Mbps/ 1 Mbps	Helsinki, Espoo, Vantaa, Kerava, Porvoo, Hyvinkää, Mäntsälä	Euro	30.9	\$29.23								
	Sonera	Incumbent		Extra C	FTTH	10 Mbps	Helsinki, Espoo, Vantaa, Kerava, Porvoo, Hyvinkää, Mäntsälä	Euro	40.9	\$38.69								
	Sonera	Incumbent		Extra C	FTTH	100 Mbps	Helsinki, Espoo, Vantaa, Kerava, Porvoo, Hyvinkää, Mäntsälä	Euro	49.9	\$47.21								
	DNA Group	Entrant	16%	DNA Broadband Cable	Cable	110 Mbps	Availability and prices vary by locality	Euro	49.9	\$47.21	129							http://www.dna.fi/YKSITYISILLE/LAJAKAISTA/Sivut/Default.aspx/

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
Finland	DNA Group	Entrant		DNA Broadband	DSL	1Mbps/1Mbps	Availability and prices vary by locality	Euro	27.9	\$26.40	129							http://www.dna.fi/YKSITYISILLELAJAJAKAISTA/Sivu/Default.aspx/
Finland	Finnnet Group	Entrant	12%		ADSL	256/256		Euro	44.26	\$41.87	127.89							
	Finnnet Group	Entrant			ADSL	512		Euro	50.91	\$48.16	129.42							
	Finnnet Group	Entrant			ADSL	1Mbps		Euro	70.73	\$66.92	124.92							
	Finnnet Group	Entrant			ADSL	2Mbps		Euro	109.33	\$103.43	127.2							
France	Orange	Incumbent	47%	Internet and Telephone	DSL	Up to 18 Mbps down (min 512)	National	Euro	39.9	\$42.72	1	n/a	3 / month	DSL/VOIP	12 months	29.9 for the first 3 months		http://abonnez-vous.orange.fr/residentiel/comparateur-frees-internet.aspx?node=90115005
	Orange	Incumbent		Internet and TV and Telephone	DSL	Up to 18 Mbps down (min 512)	National	Euro	39.9	\$42.72	1	n/a	3 / month	DSL/VOIP/IPTV	12 months	29.9 for the first 3 months		
	Orange	Incumbent		La Fibre (home)	FTTH	100 Mbps / 10 Mbps	Selected areas (need to specify location on the site)	Euro	44.9	\$48.07	n/a	9 for setup (after tax rebates)	3 / month	FTTH/VOIP/IPTV	12 months	First month free		
France	Free (Iliad)	Entrant	19%	ADSL	ADSL	Up to 28 Mbps/Up to 1 Mbps (ATM)	National				Self-Install							http://www.free.fr/
	Free (Iliad)	Entrant		Fibre Optique	FTTH	100Mbps/50Mbps	National				Self-Install							
	Free (Iliad)	Entrant		Wi-Fi 802.11n	Wi-Fi MiMo (Multiple-Input Multiple Output)	Up to 300 Mbps/s	National				Self-Install							
	Free (Iliad)	Entrant		Votre web			National				Self-Install							
France	Neuf Telecom	Entrant	21%	Internet Only (unbundled areas)	DSL	Up to 20 Mbps down (min 512)	National	Euro	14.9	\$15.95	Free	n/a	3/month	No	12 months	No		http://adsl.sfr.fr/tarifs-conditions-neufbox/forfaits-et-options
	Neuf Telecom	Entrant		Internet Only (non-unbundled areas)	DSL	512 - 620 kbps	National	Euro	19.9	\$21.31	Free	n/a	3/month	No	12 months	No		
	Neuf Telecom	Entrant		Neufbox Fiber	FTTH	100 Mbps / 50 Mbps	Paris, Nanterre	Euro	29.9	\$32.01	Free	n/a	n/a	FTTH/VOIP/IPTV	12 months	No		
	Neuf Telecom	Entrant		Neufbox Fiber	FTTH	100 Mbps / 50 Mbps	Pau, Lyon, Marseille	Euro	34.9	\$37.37	Free	n/a	n/a	FTTH/VOIP/IPTV	12 months	No		
Germany	Deutsche Telecom	Incumbent	46%	Call & Surf Basic w/ Internet Flat rate/standard	DSL	2 Mbps / 192 kbps	National	Euro	29.95	\$33.69	Connection Fee: 59.95; Optional Installation: 69.98	none	n/a	DSL/VOIP	12 months	No		http://www.deutsche-telekom.com/diag_sms/content/dt/de/36448%3Bisessionid=EAS31A741745B1110E6271D1B66FC58B/
	Deutsche Telecom	Incumbent		Call & Surf Basic w/ Internet Flat rate/universal	DSL	2 Mbps / 192 kbps	National	Euro	33.95	\$38.19	Connection Fee: 59.95; Optional Installation: 69.98	none	n/a	DSL/VOIP	12 months	No		
	Deutsche Telecom	Incumbent		Call & Surf Comfort/standard	DSL	6 Mbps / 576 kbps	National	Euro	39.95	\$44.94	Connection Fee: 59.95; Optional Installation: 69.98	none	n/a	DSL/VOIP	12 months	No		
	Deutsche Telecom	Incumbent		Call & Surf Comfort/universal	DSL	6 Mbps / 576 kbps	National	Euro	43.95	\$49.44	Connection Fee: 59.95; Optional Installation: 69.98	none	n/a	DSL/VOIP	12 months	No		
	Deutsche Telecom	Incumbent		Call & Surf Comfort plus/standard	DSL	16 Mbps / 1 Mbps	National	Euro	49.95	\$56.19	Connection Fee: 59.95; Optional Installation: 69.98	none	n/a	DSL/VOIP	12 months	No		
	Deutsche Telecom	Incumbent		Call & Surf Comfort plus/universal	DSL	16 Mbps / 1 Mbps	National	Euro	53.95	\$60.69	Connection Fee: 59.95; Optional Installation: 69.98	none	n/a	DSL/VOIP	12 months	No		
Germany	Alice	Entrant		Alice Light	DSL	Up to 16 Mbps / 1 Mbps	National	Euro	24.9	\$28.01	69.9	none	Free	No	14.90 for first year (w/ 24 month contract)			http://www.alice-dsl.de/kundencenter/export/de/residentiel/produkte/produktvergleich

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promot-ional Price	Usage limit	Broadband Provider's URL
	Alice	Entrant		Alice Fun	DSL	Up to 16 Mbps / 1 Mbps	National	Euro	29.9	\$33.63	69.9	none	Free	No	19.90 for first year (w/ 24 month contract)			
	Alice	Entrant		Alice Comfort	DSL	Up to 16 Mbps / 1 Mbps	National	Euro	39.9	\$44.88	69.9	none	Free	No	29.90 for first year (w/ 24 month contract)			
Germany	Arcor	Entrant		All inclusive package (6000)	DSL	6 Mbps / 640 kbps	National	Euro	29.95	\$33.69	n/a	n/a	Free	No	24 month	19.95 for first year		http://eshop.arcor.net/eshop/facade/97027400/0/96/pk-detail-internet-flat-paket-6000.html?SESSION=AORXh3XWx6lnrkADwMAAAABAQAQDAADBJAAGBAAAACG3G6AAAGFAAAHmpcs5sAcgMAAAABAASEAAABHmpcs5sADAMAAAABA0HAECAwAAAABBgMAAAAAAUHAeMAAAwAAUADAADJAAE/
	Arcor	Entrant		All inclusive package (16000)	DSL	16 Mbps / 1 Mbps	National	Euro	34.95	\$39.31	n/a	n/a	Free	No	24 month	24.95 for first year		
Germany	Arcor	Entrant		All inclusive package + safe & comfort (6000)	DSL	6 Mbps / 640 kbps	National	Euro	34.95	\$39.31	n/a	n/a	Free	No	24 month	24.95 for first year		
	Arcor	Entrant		All inclusive package + safe & comfort (16000)	DSL	16 Mbps / 1 Mbps	National	Euro	39.95	\$44.94	n/a	n/a	Free	No	24 month	29.95 for first year		
	Arcor	Entrant		All inclusive package + premium mobile flat (6000)	DSL	6 Mbps / 640 kbps	National	Euro	44.95	\$50.56	n/a	n/a	Free	DSL/WLAN	24 month	34.95 for first year		
	Arcor	Entrant		All inclusive package + premium mobile flat (16000)	DSL	16 Mbps / 1 Mbps	National	Euro	49.95	\$56.19	n/a	n/a	Free	DSL/WLAN	24 month	39.95 for first year		
	Arcor	Entrant		Internet flat package (6000)	DSL	6 Mbps / 640 kbps	National	Euro	24.95	\$28.07	n/a	n/a	Free	No	24 month	No		
	Arcor	Entrant		Internet flat package (16000)	DSL	16 Mbps / 1 Mbps	National	Euro	29.95	\$33.69	n/a	n/a	Free	No	24 month	No		
	Arcor	Entrant		Complete Connection (6000)	DSL	1 Mbps down	National	Euro	19.95	\$22.44	n/a	n/a	Free	No	24 month	No		
Germany	Freenet	Entrant		DSL 2000	DSL	2 Mbps down	National	Euro	24.95	\$28.07	Self: Free	Expenses lump sum: 9.90	Basic: Free; Wireless: purchase for 19.95	No	24 month	9.95 for first three months		http://www.freenet.de/freenet/dsl/order/index.html/
	Freenet	Entrant		DSL 6000	DSL	6 Mbps down	National	Euro	29.95	\$33.69	Self: Free	Expenses lump sum: 9.90	Basic: Free; Wireless: purchase for 19.95	No	24 month	14.95 for first three months		
	Freenet	Entrant		DSL 16000	DSL	16 Mbps down	National	Euro	34.95	\$39.31	Self: Free	Expenses lump sum: 9.90	Basic: Free; Wireless: purchase for 19.95	No	24 month	19.95 for first three months		
Germany	United Internet	Entrant		DSL HomeNet 6.000	DSL	up to 6 Mbps down	National	Euro	29.99	\$33.73	n/a	Saving Preparation Fee: 59.95	Free	DSL/VOIP	24 month	Free for first 6 months		http://dsl.lund1.de/vml/order/DslEinstesHomeNet%3Bisessionid=DF30E167E137053D86E244CF57BHC86.TCL77h?_frame=_top&_ID=Einstieg&sendimgdata=1&skin=homenet&linkId=hd-tab-dslhomenet&linkType=txt&linkOrigin=DslEinstieg/
	United Internet	Entrant		DSL HomeNet 16.000	DSL	up to 16 Mbps down	National	Euro	34.99	\$39.36	n/a	Saving Preparation Fee: 59.95	Free	DSL/VOIP	24 month	Free for first 6 months		
	United Internet	Entrant		DSL HomeNet 16.000 Entertainment	DSL	up to 16 Mbps down	National	Euro	49.99	\$56.23	n/a	Saving Preparation Fee: 59.95	Free	DSL/VOIP	24 month	Free for first 6 months		
Germany	Versatel	Entrant		Basic Flat rate DSL 2000	DSL	2 Mbps / 384 kbps	National	Euro	19.9	\$22.38	Self: free; On-site: 79.50	none	3.50 / month	No	24 month	No		http://www.versatel.de/popup-seiten/produkt-downloads.html/

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Versatel	Entrant		DSL 6000	DSL	6 Mbps / 512 kbps	National	Euro	22.4	\$25.20	Self: free; On-site: 79.50	none	3.50 / month	No				
	Versatel	Entrant		DSL 16000	DSL	16 Mbps / 800 kbps	National	Euro	27.4	\$30.82	Self: free; On-site: 79.50	none	3.50 / month	No				
Greece	OTE	Incumbent	58%	Conn-x 2Mbps	DSL	2 Mbps / 256 kbps	National	Euro	16.5	\$21.40	Self: Free; On-Site: 53.54	Activation Fee: 41.64	Free	No				http://oteshop.ote.gr/storefront/en/fr-the-home/conn-x-adt/conn_x_cat_003-conn_subcat_100-p1.html/
	OTE	Incumbent		Conn-x 8Mbps	DSL	8 Mbps / 384 kbps	National	Euro	22.5	\$29.18	Self: Free; On-Site: 53.54	Activation Fee: 41.64	Free	No				
	OTE	Incumbent		Conn-x 24Mbps	DSL	24 Mbps / ? Kbps	National	Euro	27.9	\$36.19	Self: Free; On-Site: 53.54	Activation Fee: 41.64	Free	No				
	OTE	Incumbent		Conn-x for students	DSL	2 Mbps / 256 kbps	National	Euro	11.9	\$15.43	Self: Free; On-Site: 53.54	Activation Fee: Free	Free	No				
	OTE	Incumbent			DSL	8 Mbps / 384 kbps	National	Euro	15.9	\$20.62	Self: Free; On-Site: 53.54	Activation Fee: Free	Free	No				
	HOL	Entrant		ADSL Internet	DSL	6 Mbps down	National	Euro	16.5	\$21.40	On Site: 49.90	Activation Fee: Free	4.4	No	month-month			http://www.hol.gr/default.asp?pid=12&ct=6&la=1/
Greece	HOL	Entrant			DSL	24 Mbps down	National	Euro	20.9	\$27.11	On Site: 49.90	Activation Fee: Free	4.4	No	month-month			11.90 for the first 8 months if prepaid
	HOL	Entrant		ADSL University	DSL	6 Mbps down	National	Euro	9.9	\$12.84	On Site: 49.90	Activation Fee: Free	4.4	No	month-month			13.60 for the first 7 months if prepaid
Hong Kong	Hong Kong Broadband Network Limited			bb25	Fiber	25 Mbps (up/down)	National	HK\$	288	\$40.60		550						
	Hong Kong Broadband Network Limited			bb50	Fiber	50 Mbps (up/down)	National	HK\$	328	\$46.24		550						
	Hong Kong Broadband Network Limited			bb100	Fiber	100 Mbps (up/down)	National	HK\$	398	\$56.10		550						
	Hong Kong Broadband Network Limited			bb200	Fiber	200 Mbps (up/down)	National	HK\$	688	\$96.98	Exempted							24 months
	Hong Kong Broadband Network Limited			bb1000	Fiber	1000 Mbps (up/down)	National	HK\$	1680	\$236.82	Exempted							24 months
Hong Kong	Hutchison Global Communications Limited			10 Mbps	Fiber to the building		National	HK\$	188	\$26.50								26 months
	Hutchison Global Communications Limited			30 Mbps	Fiber to the building		National	HK\$	198	\$27.91								26 months
	Hutchison Global Communications Limited			50 Mbps	Fiber to the building		National	HK\$	228	\$32.14								26 months
	Hutchison Global Communications Limited			100 Mbps	Fiber to the building		National	HK\$	298	\$42.01								26 months
	New World Telecommunications Limited				Ethernet (VDSL)	1.5 Mbps	National	HK\$	158	\$22.27	Self: Free; On-Site: 530							http://www.newworldtel.com/wps/portals/nt/pkcx/ml/04_Sj9SPkssv0sPlMnMz0vM0Y_OizKLN4g3DPUGSYGY_xqb6kWhCgiRoNORIV_P_NxU7W_9AP2C3NC1GkHROAQhKp-delta/base64xml/1.3dJdvEv0ZNOUFzQUvMvNEIVRS82XzBfMjdu7NODE_URL=Cconsumer-Broadband%20Services/

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	New World Telecommunications Limited				Ethernet (VDSL)	3 Mbps	National	HK\$	188	\$26.50	Self: Free; On-Site: 530				6 months			http://www.newworldtel.com/wps/portals/ut/pkcxml/04_Sj9SPkssy0sPLMnMz0vM0Y_QizKLN4g3DPUGSYGY_xqb6kWhCgiRoN08IV-P_NxUW_9AP2C3NCIckdHROADhKp/delta/base64xml/1.3dJdyEv40ZNOUFZQUMvNEIVR8S2XzBMjdU7NO/DE_URL=Consumer-Broadband%20Services/
	New World Telecommunications Limited				Ethernet (VDSL)	6 Mbps	National	HK\$	218	\$30.73	Self: Free; On-Site: 530				6 months			http://www.newworldtel.com/wps/portals/ut/pkcxml/04_Sj9SPkssy0sPLMnMz0vM0Y_QizKLN4g3DPUGSYGY_xqb6kWhCgiRoN08IV-P_NxUW_9AP2C3NCIckdHROADhKp/delta/base64xml/1.3dJdyEv40ZNOUFZQUMvNEIVR8S2XzBMjdU7NO/DE_URL=Consumer-Broadband%20Services/
	Limited and Hong Kong Telecommunications (HKT) Limited			1000M Fiber Broadband Service Plan	Fiber	Up to 1000M/Up to 1000M	National	HK\$	2188	\$308.43					24 months	Waive \$530 no	Unlimited Usage	http://www.netvigator.com
	Limited and Hong Kong Telecommunications (HKT) Limited			100M Fiber Broadband Service Plan	Fiber	Up to 100M/Up to 100M	National	HK\$	588	\$82.89					24 months	Waive \$530 no	Unlimited Usage	http://www.netvigator.com
	Limited and Hong Kong Telecommunications (HKT) Limited			30M Fiber Broadband Service Plan	Fiber	Up to 30M/Up to 18M	National	HK\$	256	\$36.09					18 months	one month fee waived/24 months and	Unlimited Usage	http://www.netvigator.com
	Limited and Hong Kong Telecommunications (HKT) Limited			Service Plan (with indoor and outdoor wireless solution)	Fiber	Up to 18M	National	HK\$	266	\$37.50				(Netvigator) and Indoor and Outdoor			Unlimited Usage	http://www.netvigator.com
	Limited and Hong Kong Telecommunications (HKT) Limited			8M Single User Plan		Up to 8M	National	HK\$	398	\$56.10							200 Hours	http://www.netvigator.com
	Hong Kong Cable Television Limited (i-Cable)			i-Cable Broadband Service	Hybrid Fiber Coaxial	Not identified on website	National	HK\$	248	\$34.96	450		300		12 months			http://www.i-cable.com/ourservices/cablemodem/e-home.html/
	Hong Kong Cable Television Limited (i-Cable)				DSL	24 Mbps down	National	HK\$	14.9	\$2.10	On Site: 49.90	Activation Fee: Free; Contract Fee: 15600	4.4	No	month-month	No		
Hungary	T-Home	Incumbent	43%	DSL Easy	DSL	2 Mbps / 192 kbps	National	HUF	2800	\$19.54	Optional, price unknown	Activation Fee: Free; Contract Fee: 15600	Free with contract	DSL/VOIP/IPTV	12 Months	No		http://www.t-home.hu/latkossagi/internet/dijsomagek_uj_eloizetoknek/
Hungary	T-Home	Incumbent		DSL Happy	DSL	2 Mbps / 192 kbps	National	HUF	3850	\$26.87	Optional, price unknown	Activation Fee: Free; Contract Fee: 37500	Free with contract	DSL/VOIP/IPTV	12 Months	No		
	T-Home	Incumbent		DSL Medium	DSL	8 Mbps / 512 kbps	National	HUF	6150	\$42.91	Optional, price unknown	Activation Fee: Free; Contract Fee: 37500	Free with contract	DSL/VOIP/IPTV	12 Months	No		
	T-Home	Incumbent		DSL Extra	DSL	25 Mbps / 5 Mbps	National	HUF	8250	\$57.57	Optional, price unknown	Activation Fee: Free; Contract Fee: 37500	Free with contract	DSL/VOIP/IPTV	12 Months	No		
	T-Home	Incumbent		Kabelnet Easy	Cable	2 Mbps / 256 kbps	National	HUF	2850	\$19.89	Optional, price unknown	Activation Fee: Free; Contract Fee: 15600	Free with contract	DSL/VOIP/IPTV	12 Months	No		
	T-Home	Incumbent		Kabelnet Happy	Cable	2 Mbps / 256 kbps	National	HUF	3850	\$26.87	Optional, price unknown	Activation Fee: Free; Contract Fee: 37500	Free with contract	DSL/VOIP/IPTV	12 Months	No		
	T-Home	Incumbent		Kabelnet Medium	Cable	8 Mbps / 1 Mbps	National	HUF	6150	\$42.91	Optional, price unknown	Activation Fee: Free; Contract Fee: 37500	Free with contract	DSL/VOIP/IPTV	12 Months	No		
	T-Home	Incumbent		Kabelnet Extra	Cable	25 Mbps / 5 Mbps	National	HUF	8250	\$57.57	Optional, price unknown	Activation Fee: Free; Contract Fee: 37500	Free with contract	DSL/VOIP/IPTV	12 Months	No		
	T-Home	Incumbent		Optinet Easy	FTTH	5 Mbps / 2.5 Mbps	Budapest and several other cities	HUF	2800	\$19.54	Optional, price unknown	Activation Fee: Free; Contract Fee: 15600	Free with contract	DSL/VOIP/IPTV	12 Months	No		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	T-Home	Incumbent		Optinet Happy	FTTH	5 Mbps / 2.5 Mbps	Budapest and several other cities	HUF	3850	\$26.87	Optional, price unknown	Activation Fee: Free; Contract Fee: 37500	Free with contract	DSL/VOIP/IPTV	12 Months	No		
	T-Home	Incumbent		Optinet Medium	FTTH	15 Mbps / 7.5 Mbps	Budapest and several other cities	HUF	6150	\$42.91	Optional, price unknown	Activation Fee: Free; Contract Fee: 37500	Free with contract	DSL/VOIP/IPTV	12 Months	No		
	T-Home	Incumbent		Optinet Extra	FTTH	25 Mbps / 12.5 Mbps	Budapest and several other cities	HUF	8250	\$57.57	Optional, price unknown	Activation Fee: Free; Contract Fee: 37500	Free with contract	DSL/VOIP/IPTV	12 Months	No		
	T-Home	Incumbent		Optinet Super	FTTH	50 Mbps / 25 Mbps	Budapest and several other cities	HUF	11850	\$82.69	Optional, price unknown	Activation Fee: Free; Contract Fee: 37500	Free with contract	DSL/VOIP/IPTV	12 Months	No		
	EnterNet	Entrant		Privat prepaid csomag	DSL	1280 / 128 kbps	n/a	HUF	2390	\$16.68	n/a	none	n/a	No	12 Months	No		http://www.enternet.hu/ads/enternet
	EnterNet	Entrant		Privat Csomag	DSL	1280 / 128 kbps	n/a	HUF	2990	\$20.86	n/a	none	n/a	No	12 Months	No		
	EnterNet	Entrant		Tempo prepaid csomag	DSL	2560 / 192 kbps	n/a	HUF	2590	\$18.07	n/a	none	n/a	No	12 Months	No		
	EnterNet	Entrant		Tempo csomag	DSL	2560 / 192 kbps	n/a	HUF	3490	\$24.35	n/a	none	n/a	No	12 Months	No		
	EnterNet	Entrant		Hobbi csomag	DSL	4480 / 256 kbps	n/a	HUF	3990	\$27.84	n/a	none	n/a	No	12 Months	No		
	EnterNet	Entrant		Komfort csomag	DSL	8096 / 512 kbps	n/a	HUF	4990	\$34.82	n/a	none	n/a	No	12 Months	No		
	EnterNet	Entrant		Extra csomag	DSL	18432 / 1024 kbps	n/a	HUF	6990	\$48.78	n/a	none	n/a	No	12 Months	No		
	Externet	Entrant		Home Prepaid Alpha	DSL	1280 / 128 kbps	National	HUF	2550	\$17.79	n/a	n/a	One time: 7150	No	12 Months	No		http://www.externet.hu/otthoni_korlatlan_adsl_uj_elofizeto_tcom.html/
	Externet	Entrant		Home Prepaid Tango	DSL	2560 / 192 kbps	National	HUF	3550	\$24.77	n/a	n/a	One time: 7150	No	12 Months	No		
	Externet	Entrant		Home Prepaid Bravo	DSL	4480 / 256 kbps	National	HUF	5940	\$41.45	n/a	n/a	One time: 7150	No	12 Months	No		
Hungary	Externet	Entrant		Home Prepaid Charlie	DSL	8096 / 512 kbps	National	HUF	9550	\$66.64	n/a	n/a	One time: 7150	No	12 Months	No		
	Externet	Entrant		Home Alpha	DSL	1280 / 128 kbps	National	HUF	3050	\$21.28	n/a	n/a	One time: 7150	No	12 Months	No		
	Externet	Entrant		Home Tango	DSL	2560 / 192 kbps	National	HUF	3740	\$26.10	n/a	n/a	One time: 7150	No	12 Months	No		
	Externet	Entrant		Home Bravo	DSL	4480 / 256 kbps	National	HUF	6140	\$42.84	n/a	n/a	One time: 7150	No	12 Months	No		
	Externet	Entrant		Home Bravo	DSL	8096 / 512 kbps	National	HUF	8060	\$56.24	n/a	n/a	One time: 7150	No	12 Months	No		
	Externet	Entrant		Home VDSL	DSL	25000 / 4096 kbps	National	HUF	9990	\$69.71	n/a	n/a	One time: 7150	No	12 Months	No		
	Externet	Entrant		Alfa Prepaid Xpress	DSL	3072 / 384 kbps	National	HUF	4875	\$34.02	n/a	n/a	One time: 7150	No	12 Months	No		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Externet	Entrant		Bravo Prepaid Xpress	DSL	5120 / 512 kbps	National	HUF	5969	\$41.65	n/a	n/a	One time: 7150	No	12 Months	No		
	Externet	Entrant		Prepaid Express Charlie	DSL	10240 / 1024 kbps	National	HUF	8844	\$61.71	n/a	n/a	One time: 7150	No	12 Months	No		
	Externet	Entrant		Alpha Xpress	DSL	3072 / 384 kbps	National	HUF	5198	\$36.27	n/a	n/a	One time: 7150	No	12 Months	No		
	Externet	Entrant		Xpress Bravo	DSL	5120 / 512 kbps	National	HUF	6219	\$43.40	n/a	n/a	One time: 7150	No	12 Months	No		
	Externet	Entrant		Xpress Charlie	DSL	10240 / 1024 kbps	National	HUF	9344	\$65.20	n/a	n/a	One time: 7150	No	12 Months	No		
	Invitel	Entrant		Rajt package	DSL	8096 / 512 kbps	National	HUF	2990	\$20.86	Free	Service Fee: 2100	n/a	No	12 Months	No		http://english.invitel.hu/MainPage/About/Internet/
	Invitel	Entrant		Tempo package	DSL	8096 / 512 kbps	National	HUF	4990	\$34.82	Free	Service Fee: 2100	n/a	No	12 Months	No		
	Invitel	Entrant		Turbo package	DSL	8096 / 512 kbps	National	HUF	7990	\$55.75	Free	Service Fee: 2100	n/a	No	12 Months	No		
	Invitel	Entrant		ADSL 1M 1GB	DSL	1280 / 128 kbps	National	HUF	3290	\$22.96	Free	Service Fee: 2100	n/a	No	12 Months	1645 for first 6 months		
	Invitel	Entrant		ADSL 1M	DSL	1280 / 128 kbps	National	HUF	4290	\$29.94	Free	Service Fee: 2100	n/a	No	12 Months	2145 for first 6 months		
	Invitel	Entrant		ADSL 4M	DSL	4480 / 256 kbps	National	HUF	7290	\$50.87	Free	Service Fee: 2100	n/a	No	12 Months	3645 for first 6 months		
	UPC	Entrant		Start	Cable	1 Mbps / 512 kbps	National	HUF	2500	\$17.44	Self: Free; On-Site: n/a	n/a	n/a	No	n/a	No		http://www.upc.hu/en/upc_internet
	UPC	Entrant		Bronze	Cable	4 Mbps / 1 Mbps	National	HUF	4700	\$32.80	Self: Free; On-Site: n/a	n/a	n/a	No	n/a	No		
	UPC	Entrant		Silver	Cable	15 Mbps / 2 Mbps	National	HUF	7300	\$50.94	Self: Free; On-Site: n/a	n/a	n/a	No	n/a	No		
	UPC	Entrant		Gold	Cable	25 Mbps / 3 Mbps	National	HUF	9300	\$64.90	Self: Free; On-Site: n/a	n/a	n/a	No	n/a	No		
Iceland	Siminn	Incumbent		Good	DSL	1 Mbps down	National	ISK	4190	\$37.42	n/a	n/a	n/a	No	n/a	No		http://www.siminn.co.uk/residential/internet
	Siminn	Incumbent		Better	DSL	2 Mbps down	National	ISK	5190	\$46.36	n/a	n/a	n/a	No	n/a	No		
	Siminn	Incumbent		Best	DSL	up to 8 Mbps down	National	ISK	6190	\$55.29	n/a	n/a	n/a	No	n/a	No		
	Siminn	Incumbent		Unsurpassable	DSL	up to 12 Mbps down	National	ISK	6690	\$59.75	n/a	n/a	n/a	No	n/a	No		
	OG Vodafone	Entrant	15%	The Nice Connection	DSL/FTTH	Mbps down; if DSL connection: up to 12 Mbps	National	ISK	4190	\$37.42	6263	none	Rent: 350 / month; Purchase: 12900	No	month-month	installation w/ 6 month commitment		http://www.vodafone.is/en/internet/
	OG Vodafone	Entrant		The Hip Connection	DSL/FTTH	Mbps down; if DSL connection: up to 12 Mbps	National	ISK	5190	\$46.36	6263	none	Rent: 350 / month; Purchase: 12900	No	month-month	installation w/ 6 month commitment		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download / upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL	
	OG Vodafone	Entrant		The Super Connection	DSL/FTTH	11.2 Mbps down; up to 12 Mbps	National	ISK	6190	\$55.29	6263	none	Rent: 350 / month; Purchase: 12900	No			Free installation w/ 6 month commitment		
	OG Vodafone	Entrant		The Hip Connection (no fixed line)	DSL/FTTH	Mbps down; if DSL connection: up to 12 Mbps	National	ISK	5190	\$46.36	6263	none	Rent: 350 / month; Purchase: 12900	No			month-month	No	
	OG Vodafone	Entrant		The Super Connection (no fixed line)	DSL/FTTH	Mbps down; if DSL connection: up to 12 Mbps	National	ISK	6190	\$55.29	6263	none	Rent: 350 / month; Purchase: 12900	No			month-month	No	
Ireland	Eircom	Incumbent	51%	Stand Alone Broadband	DSL	Up to 1 Mbps / 128 kbps	National	Euro	25.09	\$23.36		line rental fee: unspecified	Free	No			6 Months	First month free	http://www.eircom.ie/cgi-bin/bvsm/bveircom/bladerunner/showContent.jsp?BV_SessionID=@&@/615749908.12476894499/@&@&BV_EngineID=cccddskkillejefesefefdfdfi0&cid=BBCComp&site=Res&channel=536889713&storeChanId=536889713&clickIdAction=addClickII_gateway&clickIdTo=bveircom/bladerunner/showContent.jsp&clickFrom=bveircom/bladerunner/showContent.jsp&clickFromCID=NewBundleCompareTable&clickFromCategory=null/
Ireland	Eircom	Incumbent		1 MB Broadband	DSL	1000/ 128 kbps	National	Euro	25.09	\$23.36	Connection: Free	Not included	Free	No			6 Months	First month free	http://www.eircom.ie/cgi-bin/bvsm/bveircom/bladerunner/showContent.jsp?BV_EngineID=cccfddehkhgafcefeceefefefdfi0&BV_SessionID=@&@/1828903919.1248871836/@&@&cid=BBResults&option1=0&option2=1&option3=2&option4=6/
	Eircom	Incumbent		3 Mb Broadband	DSL	3000/ 128 kbps	National	Euro	30.11	\$28.04	Connection: Free	Not included	Free	No			6 Months	First month free	
	Eircom	Incumbent		1 MB with Eircom talktime family	DSL	1000/ 128 kbps	National	Euro	50.15	\$46.69	Connection: Free	Included	Free	Yes			12 months		
Ireland	BT Ireland	Entrant	9%	Option 1	DSL	Up to 24 Mbps in certain areas, up to 1Mbps for all others	National	Euro	22.59	\$21.03	Connection: Free	none	Free	No			12 Months	No	http://www.btreland.ie/AtHome_bb.shtml/
	BT Ireland	Entrant		Option 2	DSL	Up to 24 Mbps in certain areas, up to 3 Mbps for all others	National	Euro	32.63	\$30.38	Connection: Free	none	Free	No			12 Months	No	
	BT Ireland	Entrant		Option 3	DSL	Up to 24 Mbps in certain areas, up to 7.6 Mbps for all others	National	Euro	42.67	\$39.73	Connection: Free	none	Free	No			12 Months	No	
Ireland	Digiweb	Entrant	3%	DSL	DSL	3 Mbps / 384 kbps	National	Euro	29.95	\$27.89	n/a	Activation: Free	Free	No			12 Months	No	http://www.digiweb.ie/home/dsl
	Digiweb	Entrant		DSL Xtra	DSL	7.6 Mbps / 672 kbps	National	Euro	39.95	\$37.20	n/a	Activation: Free	Free	No			12 Months	No	
	Digiweb	Entrant		DSL Pro	DSL	10 Mbps / 832 kbps	National	Euro	89.95	\$83.75	n/a	Activation: Free	Free	No			12 Months	No	
Ireland	Irish Broadband	Entrant		Ripwave 1Mb	Plug & Play	1 Mbps / 256 kbps	National	Euro	19.03	\$17.72	n/a	Activation: 37.65	n/a	No			12 Months	No	http://www.irishbroadband.ie/products.php?cbom=1/
	Irish Broadband	Entrant		Ripwave 2Mb	Plug & Play	2 Mbps / 256 kbps	National	Euro	27.06	\$25.20	n/a	Activation: 37.65	n/a	No			12 Months	No	
	Irish Broadband	Entrant		Go!	Plug & Play	512 kbps / 128 kbps	National	Euro	19.03	\$17.72	n/a	Activation: 37.65	One-Time: 99	No			12 Months	No	

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
Ireland	Irish Broadband	Entrant		Go! Plus	Plug & Play	1 Mbps / 256 kbps	National	Euro	27.06	\$25.20	n/a	Activation: 37.65	One-Time: 99	No				
	Irish Broadband	Entrant		Imagine up to 1 Mb	DSL	1 Mbps / 128 kbps	National	Euro	15.06	\$14.02	n/a	Activation: Free	One-Time: 99.41	No				
	Irish Broadband	Entrant		Imagine up to 3 Mb	DSL	3 Mbps / 256 kbps	National	Euro	25.1	\$23.37	n/a	Activation: Free	One-Time: 99.41	No				
	Irish Broadband	Entrant		Imagine up to 7.6 Mb	DSL	7.6 Mbps / 384 kbps	National	Euro	35.14	\$32.72	n/a	Activation: Free	One-Time: 99.41	No				
Ireland	UPC	Entrant	13%	Broadband Basic	Cable	1 Mbps / 128 kbps	National	Euro	24	\$22.35	Connection: Free; Installation: n/a	none	One-Time: 49.99	Cable/phone	12 Months	Half price for first 3 months		http://www.upc.ie/internet
	UPC	Entrant		Broadband Value	Cable	3 Mbps / 256 kbps	National	Euro	22	\$20.48	Connection: Free; Installation: n/a	none	One-Time: 49.99	No	12 Months	Half price for first 3 months		
	UPC	Entrant		Broadband Express	Cable	10 Mbps / 1 Mbps	National	Euro	32	\$29.80	Connection: Free; Installation: n/a	none	Free	No	12 Months	Half price for first 3 months		
	UPC	Entrant		Broadband Ultra	Cable	20 Mbps / 1.5 Mbps	National	Euro	42	\$39.11	Connection: Free; Installation: n/a	none	Free	No	12 Months	Half price for first 3 months		
Italy	Telecom Italia	Incumbent	61%	Alice	ADSL/ADSL2+	7Mbps/384Kbps	National	Euro	19.95	\$22.27	154.8	none	free					http://translate.google.com/translate?hl=en&sl=it&tl=en&u=http%3A%2F%2Fwww.alice.it%2F
	Telecom Italia	Incumbent		Alice	ADSL/ADSL2+	20Mbps/1Mbps	National	Euro	24.95	\$27.85	154.8	none	free					Free Installation by 2009 Oct 31
	Telecom Italia	Incumbent		Night & Weekend	ADSL	640Kbps/256Kbps	National	Euro	9.95	\$11.10	154.8	none	free					Free Installation by 2009 Oct 31
Italy	Fastweb	Entrant		Naviga Casa	DSL	20 Mbps / 1 Mbps	Certain areas (unknown)	Euro	39.9	\$44.53	Free	n/a	Free	DSL/VOIP	n/a	16.08 Until Jan. 2010		http://www.fastweb.it/offerte/promozioni-commissione-adsl-a-gasa/#serv_inclusi/
	Fastweb	Entrant			FTTH	10 Mbps / 10 Mbps	All other areas	Euro	39.9	\$44.53	Free	n/a	Free	FTTH/VOIP	n/a	16.08 Until Jan. 2010		
Italy	Libero	Entrant		ADSL Light	DSL	1.2 Mbps / 256 kbps	National	Euro	9.95	\$11.10	n/a	Activation: Free	3 / month	No	n/a	No		http://www.libero.it
	Libero	Entrant		ADSL Flat	DSL	7 Mbps / 512 kbps	National	Euro	19.95	\$22.27	n/a	Activation: Free	3 / month	No	n/a	First two months free		
	Libero	Entrant		ADSL 20 Mega	DSL	20 Mbps / 1 Mbps	National	Euro	24.95	\$27.85	n/a	Activation: Free	3 / month	No	n/a	First two months free		
Italy	Tiscali	Entrant		ADSL 8 Mega	DSL	8 Mbps / 512 kbps	National	Euro	19.95	\$22.27	n/a	Activation: Free	n/a	No	n/a	First two months: 9.95		http://www.tiscali.it
	Tiscali	Entrant		ADSL 20 Mega	DSL	20 Mbps / 1 Mbps	National	Euro	24.95	\$27.85	n/a	Activation: Free	n/a	No	n/a	First two months: 9.95		
Japan	NTT East Japan	Incumbent		MORE III	DSL	47 Mbps / 5 Mbps	n/a	JPY	5302.5	\$39.47	4725+[2100 (self) or 14700 (on-site)]	\$40; Telephone exchange setup: 1050; ADSL	514.5 / month	No	n/a	No		http://www.ntt-east.co.jp/product_e/052.html/
	NTT East Japan	Incumbent		MORE II	DSL	40 Mbps / 1 Mbps	n/a	JPY	5197.5	\$38.69	4725+[2100 (self) or 14700 (on-site)]	Contract Fee: \$40; Telephone exchange setup: 1050; ADSL wiring setup: 945	514.5 / month	No	n/a	No		
	NTT East Japan	Incumbent		MORE	DSL	12 Mbps / 1 Mbps	n/a	JPY	5092.5	\$37.91	4725+[2100 (self) or 14700 (on-site)]	Contract Fee: \$40; Telephone exchange setup: 1050; ADSL wiring setup: 945	514.5 / month	No	n/a	No		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download / upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	NTT East Japan	Incumbent		8 Mbps Type	DSL	8 Mbps / 1 Mbps	n/a	JPY	4987.5	\$37.13	4725+[2100 (self) or 14700 (on-site)]	Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945	462 / month	No	n/a	No		
Japan	NTT East Japan	Incumbent		1.5 Mbps Type	DSL	1.5 Mbps / 512 kbps	n/a	JPY	4777.5	\$35.56	4725+[2100 (self) or 14700 (on-site)]	Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945	462 / month	No	n/a	No		
	NTT East Japan	Incumbent		Entry	DSL	1 Mbps / 512 kbps	n/a	JPY	3097.5	\$23.06	4725+[2100 (self) or 14700 (on-site)]	Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945	462 / month	No	n/a	No		
	NTT East Japan	Incumbent		B-FLET	FTTH	Up to 100 Mbps down	Certain areas (unknown)	JPY	6300	\$46.89	Free	Contract Fee: 840; Telephone exchange setup: 1050; Optical network unit setup: 945	basic: 380 / month; Installation: self-free, on-site 4400	No	12 months	First two months free		http://flets.com/english/opt/charge_fm.html
Japan	NTT West Japan	Incumbent		MORE SPECIAL	DSL	47 Mbps / 5 Mbps	n/a	JPY	5260.5	\$39.16	4725+[2100 (self) or 14700 (on-site)]	Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945	462 / month	No	n/a	No		http://www.ntt-west.co.jp/service_guide/great/great03.html
	NTT West Japan	Incumbent		MORE 40	DSL	40 Mbps / 1 Mbps	n/a	JPY	5260.5	\$39.16	4725+[2100 (self) or 14700 (on-site)]	Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945	462 / month	No	n/a	No		
	NTT West Japan	Incumbent		MORE 24	DSL	24 Mbps / 1 Mbps	n/a	JPY	5299	\$39.44	4725+[2100 (self) or 14700 (on-site)]	Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945	462 / month	No	n/a	No		
	NTT West Japan	Incumbent		MORE	DSL	12 Mbps / 1 Mbps	n/a	JPY	5155.5	\$38.38	4725+[2100 (self) or 14700 (on-site)]	Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945	462 / month	No	n/a	No		
	NTT West Japan	Incumbent		8 Mbps Plan	DSL	8 Mbps / 1 Mbps	n/a	JPY	5050.5	\$37.59	4725+[2100 (self) or 14700 (on-site)]	Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945	462 / month	No	n/a	No		
	NTT West Japan	Incumbent		1.5 Mbps Plan	DSL	1.5 Mbps / 512 kbps	n/a	JPY	4840.5	\$36.03	4725+[2100 (self) or 14700 (on-site)]	Contract Fee: 840; Telephone exchange setup: 1050; ADSL wiring setup: 945	462 / month	No	n/a	No		
	NTT West Japan	Incumbent		FLET'S HIKARI PREMIUM - Family	FTTH	Up to 100 Mbps down	Certain areas (unknown)	JPY	5218.5	\$38.84	4725	Contract Fee: 840; Telephone exchange setup: 1050; Optical network unit setup: 945	n/a	No	n/a	No		http://www.ntt-west.co.jp/service_guide/great/great13.html
Japan	Jupiter Telecommunications	Entrant		Net Ultra 160M Course	Cable/FTTH Hybrid	160 Mbps / 10 Mbps	National, except certain areas	JPY	6300	\$46.89	n/a	n/a	525 / month	No	n/a	No		http://www.jcom.co.jp/english/services/net/lineup.html
	Jupiter Telecommunications	Entrant		Net 40M Course	Cable/FTTH Hybrid	40 Mbps / 2 Mbps	National, except certain areas	JPY	5775	\$42.99	n/a	n/a	525 / month	No	n/a	No		
	Jupiter Telecommunications	Entrant		Net 24M Course	Cable/FTTH Hybrid	24 Mbps / 1 Mbps	National, except certain areas	JPY	5229	\$38.92	n/a	n/a	525 / month	No	n/a	No		
	Jupiter Telecommunications	Entrant		Net 1M Course	Cable/FTTH Hybrid	1 Mbps / 512 kbps	National, except certain areas	JPY	3129	\$23.29	n/a	n/a	525 / month	No	n/a	No		
Japan	Yahoo Japan	Entrant	8M	8M	DSL	8 Mbps / 9 Mbps	National	JPY	4954	\$36.88	Construction Cost: 5040	1837; Basic Fee: 1490; Provider Fee: 1490	490	No	24 months	free, 3379 thereafter for 10 months		http://bbpromo.yahoo.co.jp

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges Including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Yahoo Japan	Entrant		12M	DSL	12 Mbps / 1 Mbps	National	JPY	5374	\$40.00	Construction Cost: 5040	1837, Basic Fee: 1490, Provider Fee: 1490	890	No	24 months	First month free, 3799 thereafter for 10 months		
	Yahoo Japan	Entrant		26M	DSL	26 Mbps / 1 Mbps	National	JPY	5689	\$42.35	Construction Cost: 5040	1837, Basic Fee: 1490, Provider Fee: 1490	990	No	24 months	First month free, 4114 thereafter for 10 months		
	Yahoo Japan	Entrant		50M	DSL	50 Mbps / 3 Mbps	National	JPY	5794	\$43.13	Construction Cost: 5040	1837, Basic Fee: 1490, Provider Fee: 1490	990	No	24 months	First month free, 4219 thereafter for 10 months		
	Yahoo Japan	Entrant		50 M Revo	DSL	50.5 Mbps / 12.5 Mbps	National	JPY	6109	\$45.47	Construction Cost: 5040	1837, Basic Fee: 1490, Provider Fee: 1490	1290	No	24 months	First month free, 4534 thereafter for 10 months		
Korea	Korea Telecom	Incumbent		KT QOOK Internet(Light)	FTTH	50Mbps/50Mbps		KRW	25,500	\$29.24	30,000(Free if more than 1year contract)	none	3000		3years			
	Korea Telecom	Incumbent		KT QOOK Internet(Special)	FTTH	100Mbps/100Mbps		KRW	28,800	\$33.03	30,000(Free if more than 1year contract)	none	3000		3,4years			
	Korea Telecom	Incumbent		KT QOOK Internet(Checkline)	ADSL	128Kbps/256Kbps	National	KRW	17,850	\$20.47	30,000(Free if more than 1year contract)	none	8000		3years			
Korea	Korea Telecom	Incumbent		KT QOOK Internet(Skyline)	Satellite	512Kbps/2Mbps	National	KRW	112,000	\$128.44	1,000,000	none	10000		3years			
	Korea Telecom	Incumbent		NESPOT	Wi-Fi		National	KRW	13500	\$15.48	Free	none	Free		3years			
Korea	Hanaro Telecom (SK broadband)	Entrant		Fiber Lan(100M)	FTTH	Up to 100 Mbps down	National	KRW	33000	\$37.84	30000	n/a	Free	No	month to month	Installation waived with 1 year+ contract		http://www.skbroadband.com/eng/iproduct/evalley.asp/
	Hanaro Telecom (SK broadband)	Entrant		Fiber Lan(100M)	FTTH	Up to 100 Mbps down	National	KRW	32010	\$36.71	30000	n/a	Free	No	12 months	Installation waived with 1 year+ contract		
	Hanaro Telecom (SK broadband)	Entrant		Fiber Lan(100M)	FTTH	Up to 100 Mbps down	National	KRW	32350	\$37.10	30000	n/a	Free	No	24 months	Installation waived with 1 year+ contract		
	Hanaro Telecom (SK broadband)	Entrant		Fiber Lan(100M)	FTTH	Up to 100 Mbps down	National	KRW	29700	\$34.06	30000	n/a	Free	No	36 months	Installation waived with 1 year+ contract		
	Hanaro Telecom (SK broadband)	Entrant		Fiber Lan(100M)	FTTH	Up to 100 Mbps down	National	KRW	28050	\$32.17	30000	n/a	Free	No	40 months	Installation waived with 1 year+ contract		
	Hanaro Telecom (SK broadband)	Entrant		Fiber Lan(100M)	FTTH	Up to 100 Mbps down	National	KRW	27390	\$31.41	30000	n/a	Free	No	48 months	Installation waived with 1 year+ contract		
	Hanaro Telecom (SK broadband)	Entrant		Fiber Lan Bundle	FTTH	Up to 100 Mbps down	National	KRW	29700	\$34.06	Free	n/a	n/a	FTTH/VOIP	36 months	No		http://www.skbroadband.com/eng/iproduct/070.asp/
	Hanaro Telecom (SK broadband)	Entrant		Fiber Land Bundle with TV	FTTH	Up to 100 Mbps down	National	KRW	36630	\$42.01	Free	n/a	n/a	FTTH/VOIP/IPTV	36 months	No		
Latvia	Latt telecom	Incumbent	46%	Internet 1	DSL	2 Mbps / 512 kbps	National	LVL	12.18	\$30.60	Self: free; On-site: 22.97	For new line: 17.94 (w/ 18 month contract), 22.97 (w/o contract)	purchase for 29.90	No	month to month	W/ 24 month contract, free on-site installation and modem		http://www.lattecom.lv/majai/internets/internets_123/?lc_nav40282=8766&lc_nav19027=3332/
	Latt telecom	Incumbent		Internet 2	DSL	5 Mbps / 523 kbps	National	LVL	15.28	\$38.39	Self: free; On-site: 22.97	17.94 (w/ 18 month contract), 22.97 (w/o contract)	purchase for 29.90	No	month to month	W/ 24 month contract, free on-site installation and modem		
	Latt telecom	Incumbent		Internet 3	DSL	10 Mbps / 800 kbps	National	LVL	17.32	\$43.52	Self: free; On-site: 22.97	17.94 (w/ 18 month contract), 22.97 (w/o contract)	purchase for 29.90	No	month to month	W/ 24 month contract, free on-site installation and modem		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
Latvia	Balticom	Entrant		Home Connections - Basic		Latvia: 15 Mbps / 2 Mbps; International: 10 Mbps / 512 kbps	Plyavnieki, Purvciems, Riga, Zolitude, Ilguciems, Yugla, Imants, Vecmilgravis and Sampietaru pagastu teritorijās	LVL	12.1	\$30.40	Connection fee: 24.2	n/a	n/a	No	month to month	w/ 12 month contract, first month free & free connection; with / 24 month contract, first year 60% off & free connection		http://www.balticom.lv/index-lat.php?PHPSESSID=03516844bed730ba72b65e0f6e3f6778p=4&pp=5/
	Balticom	Entrant		Home Connections - Professional		Latvia: 25 Mbps / 3 Mbps; International: 15 Mbps / 1 Mbps	Plyavnieki, Purvciems, Riga, Zolitude, Ilguciems, Yugla, Imants, Vecmilgravis	LVL	16.94	\$42.56	Connection fee: 33.88	n/a	n/a	No	month to month	w/ 12 month contract, first month free & free connection		http://www.svnets.lv
Latvia	Balnet Data	Entrant		Basic	DSL	Latvia: 10 Mbps / 2 Mbps; International: 5 Mbps / 1 Mbps	National	LVL	12.1	\$30.40	Connection fee: free	n/a	n/a	No	n/a	n/a		
				Extra	DSL	Latvia: 20 Mbps / 3 Mbps; International: 10 Mbps / 3 Mbps	National	LVL	16.3	\$40.95	Connection fee: free	n/a	n/a	No	n/a	n/a		
				Lux	DSL	Latvia: 50 Mbps / 5 Mbps; International: 15 Mbps / 5 Mbps	National	LVL	24.2	\$60.80	Connection fee: free	n/a	n/a	No	n/a	n/a		
Latvia	Baltkom TV	Entrant		Start Tariff	Cable	5 Mbps / 5 Mbps	National	LVL	10.5	\$26.38	n/a	n/a	Purchase: 39.53; Monthly Rental: 3.95	No	n/a	n/a		http://www.baltkom.lv/privatpersonuinternet/apel.htm?P33Bsessionid=93B6940E-C74EB78038799C82E99DDD/1/
	Baltkom TV	Entrant		Active Rate	Cable	10 Mbps / 10 Mbps	National	LVL	12.5	\$31.41	n/a	n/a	Purchase: 39.53; Monthly Rental: 3.95	No	n/a	n/a		
	Baltkom TV	Entrant		Professional	Cable	15 Mbps / 15 Mbps	National	LVL	17	\$42.71	n/a	n/a	Purchase: 39.53; Monthly Rental: 3.95	No	n/a	n/a		
	Baltkom TV	Entrant		Business Plans	Cable	20 Mbps / 20 Mbps	National	LVL	22.5	\$56.53	n/a	n/a	Purchase: 39.53; Monthly Rental: 3.95	No	n/a	n/a		
Latvia	Dautkom TV	Entrant		Silver	Cable	2 Mbps / 512 kbps	National	LVL	7.18	\$18.04	Connection fee: 18.15	none	n/a	No	month to month	w/ 18 month contract, free connection		http://www.dautkom.lv/?lang=ru&id=16/
	Dautkom TV	Entrant		Gold	Cable	4 Mbps / 1 Mbps	National	LVL	10.25	\$25.75	Connection fee: 18.15	none	n/a	No	month to month	w/ 18 month contract, free connection		
	Dautkom TV	Entrant		Platinum	Cable	10 Mbps / 2.5 Mbps	National	LVL	15.38	\$38.64	Connection fee: 18.15	none	n/a	No	month to month	w/ 18 month contract, free connection		
	Dautkom TV	Entrant		Bronze	FTTH	1 Mbps / 1 Mbps	Rugeli, Kryzhi, Cherepovo Lake Shunya st. Valnu, partly the city center and the New Forshadta.	LVL	6	\$15.08	Connection fee: 18.15	none	n/a	No	month to month	w/ 18 month contract, free connection		
	Dautkom TV	Entrant		Silver	FTTH	3 Mbps / 3 Mbps	Rugeli, Kryzhi, Cherepovo Lake Shunya st. Valnu, partly the city center and the New Forshadta.	LVL	9	\$22.61	Connection fee: 18.15	none	n/a	No	month to month	w/ 18 month contract, free connection		
	Dautkom TV	Entrant		Gold	FTTH	8 Mbps / 8 Mbps	Rugeli, Kryzhi, Cherepovo Lake Shunya st. Valnu, partly the city center and the New Forshadta.	LVL	12	\$30.15	Connection fee: 18.15	none	n/a	No	month to month	w/ 18 month contract, free connection		
	Dautkom TV	Entrant		Platinum	FTTH	100 Mbps / 100 Mbps	Rugeli, Kryzhi, Cherepovo Lake Shunya st. Valnu, partly the city center and the New Forshadta.	LVL	17	\$42.71	Connection fee: 18.15	none	n/a	No	month to month	w/ 18 month contract, free connection		
	Dautkom TV	Entrant		Bronze	FTTH	1 Mbps / 1 Mbps	National	LVL	6	\$15.08	Connection fee: 18.15	none	n/a	No	month to month	w/ 18 month contract, free connection		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promot-ional Price	Usage limit	Broadband Provider's URL
	Dautkom TV	Entrant		Silver	FTTH	2 Mbps / 2 Mbps	National	LVL	9	\$22.61	Connection fee: 18.15	none	n/a	No	month to month	w/ 18 month contract, free connection		
	Dautkom TV	Entrant		Gold	FTTH	4 Mbps / 4 Mbps	National	LVL	12	\$30.15	Connection fee: 18.15	none	n/a	No	month to month	w/ 18 month contract, free connection		
	Dautkom TV	Entrant		Platinum	FTTH	10 Mbps / 10 Mbps	National	LVL	17	\$42.71	Connection fee: 18.15	none	n/a	No	month to month	w/ 18 month contract, free connection		
Latvia	Izzi	Entrant			1 Cable	25 Mbps / 10 Mbps	National	LVL	12.5	\$31.41	Connection fee: 14.90	none	modem rental (if over cable TV): 1.50, cable modem purchase: 29.90	No	n/a	No		http://www.izzi.lv/en/majas-internet-tarifi/
	Izzi	Entrant			2 Cable	50 Mbps / 15 Mbps	National	LVL	15.5	\$38.94	Connection fee: 14.90	none	modem rental (if over cable TV): 1.50, cable modem purchase: 29.90	No	n/a	No		
	Izzi	Entrant			3 Cable	100 Mbps / 50 Mbps	National	LVL	18.5	\$46.48	Connection fee: 14.90	none	modem rental (if over cable TV): 1.50, cable modem purchase: 29.90	No	n/a	No		
Latvia	Livas Net	Entrant		Email	Cable	Up to 2 Mbps down	National	LVL	4.5	\$11.31	n/a	n/a	Purchase for 24.99; or rent 1.5/ month	No	n/a	No		http://www.livas.lv/index.php?parent=1&cid=19&lang=lat/
	Livas Net	Entrant		Start	Cable	Up to 4 Mbps down	National	LVL	7.5	\$18.84	n/a	n/a	Purchase for 24.99; or rent 1.5/ month	No	n/a	No		
	Livas Net	Entrant		Top	Cable	Up to 8 Mbps down	National	LVL	9.5	\$23.87	n/a	n/a	Purchase for 24.99; or rent 1.5/ month	No	n/a	No		
	Livas Net	Entrant		Pro	Cable	Up to 16 Mbps down	National	LVL	12.5	\$31.41	n/a	n/a	Purchase for 24.99; or rent 1.5/ month	No	n/a	No		
Latvia	MPE NET	Entrant		Local	Cable	10 Mbps	National	LVL	7.7	\$19.35	Free	n/a	n/a	No	month to month	w/ 12 month contract, first 2 months free; w/ 24 month contract, 1st year 50% off		http://www.mpe.lv/mpe2/site/lat/centrs
	MPE NET	Entrant		Teachers	Cable	5 Mbps / 2 Mbps	National	LVL	11.89	\$29.87	Free	n/a	n/a	No	month to month	w/ 12 month contract, first 2 months free; w/ 24 month contract, 1st year 50% off		
	MPE NET	Entrant		Luxe	Cable	100 Mbps / 100 Mbps	National	LVL	15.08	\$37.89	Free	n/a	n/a	No	month to month	w/ 12 month contract, first 2 months free; w/ 24 month contract, 1st year 50% off		
Latvia	PRONETS	Entrant		Children	DSL (unclear)	5 Mbps / 1 Mbps	National	LVL	8.3	\$20.85	n/a	n/a	n/a	No	18 months	advance, get 3 free; pay 6 months		http://www.pronets.lv/index.php?main=3/
Latvia	PRONETS	Entrant		Kids Plus	DSL (unclear)	10 Mbps / 5 Mbps	National	LVL	9.7	\$24.37	n/a	n/a	n/a	No	18 months	Pay 12 months advance, get 3 free; pay 6 months advance, get 1 free; pay 3 months advance, get 5%		
	PRONETS	Entrant		Economy	FTTH (unclear)	10 Mbps / 10 Mbps	National	LVL	10.3	\$25.88	n/a	n/a	n/a	No	18 months	Pay 12 months advance, get 3 free; pay 6 months advance, get 1 free; pay 3 months advance, get 5%		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download / upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	PRONETS	Entrant		Best	FTTH (unclear)	20 Mbps / 10 Mbps	National	LVL	12.1	\$30.40	n/a	n/a	n/a	No	18 months	Pay 12 months advance, get 3 free; pay 6 months advance, get 1 free; pay 3 months advance, get 5%		
	PRONETS	Entrant		Universal	FTTH (unclear)	25 Mbps / 25 Mbps	National	LVL	14.3	\$35.93	n/a	n/a	n/a	No	18 months	Pay 12 months advance, get 3 free; pay 6 months advance, get 1 free; pay 3 months advance, get 5%		
	PRONETS	Entrant		Solid	FTTH (unclear)	50 Mbps / 25 Mbps	National	LVL	17	\$42.71	n/a	n/a	n/a	No	18 months	Pay 12 months advance, get 3 free; pay 6 months advance, get 1 free; pay 3 months advance, get 5%		
	PRONETS	Entrant		Business	FTTH (unclear)	50 Mbps / 50 Mbps	National	LVL	20.3	\$51.01	n/a	n/a	n/a	No	18 months	Pay 12 months advance, get 3 free; pay 6 months advance, get 1 free; pay 3 months advance, get 5%		
Lithuania	Teo	Incumbent	51%	Start	DSL	Lithuania: 512 kbps down, International: 256 kbps down	National	Euro (mo. Rate) & PLN	26	\$14.64	Activation fee: 200	Packaging fee: 180	200	No	month to month	w/ 24 month contract: 6 months free, free activation, modem: 100, packaging fee: 45		http://internetas.zebra.lv/internetas_zebra/ds
	Teo	Incumbent		Basic Plus	DSL	Lithuania: 1 Mbps down, International: 512 kbps down	National	Euro (mo. Rate) & PLN	36	\$20.27	Activation fee: 200	Packaging fee: 180	200	No	month to month	w/ 24 month contract: 6 months free, free activation, modem: 100, packaging fee: 45		
	Teo	Incumbent		Optimal Plus	DSL	Lithuania: 4 Mbps down, International: 2 Mbps down	National	Euro (mo. Rate) & PLN	49	\$27.59	Activation fee: 200	Packaging fee: 180	200	No	month to month	w/ 24 month contract: 6 months free, free activation, modem: 100, packaging fee: 45		
	Teo	Incumbent		Premium Plus	DSL	Lithuania: 10 Mbps down, International: 6 Mbps down	National	Euro (mo. Rate) & PLN	99	\$55.74	Activation fee: 200	Packaging fee: 180	200	No	month to month	w/ 24 month contract: 6 months free, free activation, modem: 100, packaging fee: 45		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download / upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promot-ional Price	Usage limit	Broadband Provider's URL
	Teo	Incumbent		Basic Plus	FTTH	Lithuania: 10 Mbps / 1 Mbps; International: 512 kbps / 512 kbps	Certain areas (unknown)	Euro (mo. Rate) & PLN	36	\$20.27	Activation fee: 200	Packaging fee: 180	200	No	month to month	w/ 24 month contract: 6 months free, free activation, modem: 100, packaging fee: 45		
	Teo	Incumbent		Optimal Plus	FTTH	Lithuania: 40 Mbps / 2 Mbps; International: 4 Mbps / 2 Mbps	Certain areas (unknown)	Euro (mo. Rate) & PLN	49	\$27.59	Activation fee: 200	Packaging fee: 180	200	No	month to month	w/ 24 month contract: 6 months free, free activation, modem: 100, packaging fee: 45		
	Teo	Incumbent		Premium Plus	FTTH	Lithuania: 100 Mbps / 6 Mbps; International: 10 Mbps / 6 Mbps	Certain areas (unknown)	Euro (mo. Rate) & PLN	99	\$55.74	Activation fee: 200	Packaging fee: 180	200	No	month to month	w/ 24 month contract: 6 months free, free activation, modem: 100, packaging fee: 45		
Lithuania	Balticum TV	Entrant		Cable Vilnius	Cable	Internal network: 10 Mbps down; Lithuania: 5 Mbps down; International: .5 Mbps down	Vilnius	Euro (mo. Rate) & PLN	29	\$16.33	n/a	Registration fee: 98	n/a	No	month to month	w/ 12 month contract: 1 month for 20, 49 registration fee; w/ 24 month contract: 3 months for 20, free registration; w/ 36 month contract: 6 months for 20, free registration		http://www.balticum-lv.lt/?it=1185445093/
	Balticum TV	Entrant			Cable	Internal network: 10 Mbps down; Lithuania: 2 Mbps down; International: 1 Mbps down	Vilnius	Euro (mo. Rate) & PLN	49	\$27.59	n/a	Registration fee: 98	n/a	No	month to month	w/ 12 month contract: 1 month for 30, 49 registration fee; w/ 24 month contract: 3 months for 30, free registration; w/ 36 month contract: 6 months for 30, free registration		
	Balticum TV	Entrant			Cable	Internal network: 10 Mbps down; Lithuania: 4 Mbps down; International: 2 Mbps down	Vilnius	Euro (mo. Rate) & PLN	59	\$33.22	n/a	Registration fee: 98	n/a	No	month to month	w/ 12 month contract: 1 month for 40, 49 registration fee; w/ 24 month contract: 3 months for 40, free registration; w/ 36 month contract: 6 months for 40, free registration		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges Including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Balticum TV	Entrant		Cable Klaipeda	Cable	Lithuania: 1 Mbps down ; International: 512 kbps down	Klaipeda	Euro (mo. Rate) & PLN	46	\$25.90	n/a	Registration fee: 69	Purchase: 19	Cable/IPTV	month to month	w/ 12 month contract: 1 month for 30; w/ 24 month contract: 3 months for 30; w/ 36 month contract: 6 months for 30. Free modem and registration with any contract.		
	Balticum TV	Entrant			Cable	Lithuania: 4 Mbps down ; International: 2 Mbps down	Klaipeda	Euro (mo. Rate) & PLN	59	\$33.22	n/a	Registration fee: 69	Purchase: 19	Cable/IPTV	month to month	w/ 12 month contract: 1 month for 50; w/ 24 month contract: 3 months for 50; w/ 36 month contract: 6 months for 50. Free modem and registration with any contract.		
	Balticum TV	Entrant			Cable	Lithuania: 10 Mbps down ; International: 6 Mbps down	Klaipeda	Euro (mo. Rate) & PLN	107	\$60.25	n/a	Registration fee: 69	Purchase: 19	Cable/IPTV	month to month	w/ 12 month contract: 1 month for 70; w/ 24 month contract: 3 months for 70; w/ 36 month contract: 6 months for 70. Free modem and registration with any contract.		
	Balticum TV	Entrant		Optical Vilnius	FTTH	Lithuania: 10 Mbps down ; International: 512 kbps down	Vilnius	Euro (mo. Rate) & PLN	29	\$16.33	n/a	Registration fee: 98	n/a	No	month to month	w/ 12 month contract: 1 month for 20, 49 registration fee; w/ 24 month contract: 3 months for 20, free registration; w/ 36 month contract: 6 months for 20, free registration		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market ⁶	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Balticum TV	Entrant			FTTH	Lithuania: 10 Mbps down ; International: 1 Mbps down	Vilnius	Euro (mo. Rate) & PLN	49	\$27.59	n/a	Registration fee: 98	n/a	No	month to month	w/ 12 month contract: 1 month for 30, 49 registration fee; w/ 24 month contract: 3 months for 30, free registration; w/ 36 month contract: 6 months for 30, free registration		
	Balticum TV	Entrant			FTTH	Lithuania: 10 Mbps down ; International: 2 Mbps down	Vilnius	Euro (mo. Rate) & PLN	59	\$33.22	n/a	Registration fee: 98	n/a	No	month to month	w/ 12 month contract: 1 month for 40, 49 registration fee; w/ 24 month contract: 3 months for 40, free registration; w/ 36 month contract: 6 months for 40, free registration		
Lithuania	Balticum TV	Entrant		Optical Klaipeda	FTTH	Lithuania: 100 Mbps down ; International: 512 kbps down	Klaipeda	Euro (mo. Rate) & PLN	39	\$21.96	n/a	Registration fee: 199	n/a	No	month to month	w/ 12 month contract: 1 month for 20, free registration; w/ 24 month contract: 3 months for 20, free registration; w/ 36 month contract: 6 months for 20, free registration		
	Balticum TV	Entrant			FTTH	Lithuania: 100 Mbps down ; International: 2 Mbps down	Klaipeda	Euro (mo. Rate) & PLN	59	\$33.22	n/a	Registration fee: 199	n/a	No	month to month	w/ 12 month contract: 1 month for 40, free registration; w/ 24 month contract: 3 months for 40, free registration; w/ 36 month contract: 6 months for 40, free registration		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download / upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Balticum TV	Entrant			FTTH	Lithuania: 100 Mbps down ; International: 6 Mbps down	Klaipeda	Euro (mo. Rate) & PLN	99	\$55.74	n/a	Registration fee: 199	n/a	No	month to month	w/ 12 month contract: 1 month for 60, free registration; w/ 24 month contract: 3 months for 60, free registration; w/ 36 month contract: 6 months for 60, free registration		
Lithuania	Dokeda (Megafon)	Entrant		A0	FTTH	Lithuania: 2 Mbps; International (afternoon) 1 Mbps; International (morning): 10 Mbps	Vilnius, Kaunas, Opole, Jonava	Euro	25	\$14.08	Connection fee: 49	n/a	n/a	FTTH/VOIP/IPTV	month to month	w/ 1-3 year contract: 18.75		http://www.megafon.lt/?s=1/
	Dokeda (Megafon)	Entrant		A0+	FTTH	Lithuania: 5 Mbps; International (afternoon) 1 Mbps; International (morning): 10 Mbps	Vilnius, Kaunas, Opole, Jonava	Euro	30	\$16.89	Connection fee: 49	n/a	n/a	FTTH/VOIP/IPTV	month to month	w/ 1-3 year contract: 22.50		
	Dokeda (Megafon)	Entrant		D1	FTTH	Lithuania: 40 Mbps; International (afternoon) 2 Mbps; International (morning): 20 Mbps	Vilnius, Kaunas, Opole, Jonava	Euro	40	\$22.52	Connection fee: 49	n/a	n/a	FTTH/VOIP/IPTV	month to month	w/ 1-3 year contract: 30.00		
	Dokeda (Megafon)	Entrant		D1+	FTTH	Lithuania: 100 Mbps; International (afternoon) 3 Mbps; International (morning): 30 Mbps	Vilnius, Kaunas, Opole, Jonava	Euro	50	\$28.15	Connection fee: 49	n/a	n/a	FTTH/VOIP/IPTV	month to month	w/ 1-3 year contract: 37.50		
	Dokeda (Megafon)	Entrant		D2	FTTH	Lithuania: 100 Mbps; International (afternoon) 4 Mbps; International (morning): 40 Mbps	Vilnius, Kaunas, Opole, Jonava	Euro	60	\$33.78	Connection fee: 49	n/a	n/a	FTTH/VOIP/IPTV	month to month	w/ 1-3 year contract: 45.00		
	Dokeda (Megafon)	Entrant		D2+	FTTH	Lithuania: 100 Mbps; International (afternoon) 5 Mbps; International (morning): 50 Mbps	Vilnius, Kaunas, Opole, Jonava	Euro	70	\$39.41	Connection fee: 49	n/a	n/a	FTTH/VOIP/IPTV	month to month	w/ 1-3 year contract: 52.50		
	Dokeda (Megafon)	Entrant		D3	FTTH	Lithuania: 100 Mbps; International (afternoon) 8 Mbps; International (morning): 80 Mbps	Vilnius, Kaunas, Opole, Jonava	Euro	90	\$50.68	Connection fee: 49	n/a	n/a	FTTH/VOIP/IPTV	month to month	w/ 1-3 year contract: 67.50		
Lithuania	Lietuvos Radijo Ir Televizijos Centras	Entrant		Of Space	Plug & Play	1 Mbps down	National	Euro	47	\$26.46	435 Lt	n/a	none	No	month to month	Lt w/ 1 year contract, free w/ 2 year		http://www.erdvys.lt/?t=1154592790/
	Lietuvos Radijo Ir Televizijos Centras	Entrant			Plug & Play	2 Mbps down	National	Euro	67	\$37.73	435 Lt	n/a	none	No	month to month	Installation: 99 Lt w/ 1 year contract, free w/ 2 year contract		
	Lietuvos Radijo Ir Televizijos Centras	Entrant			Plug & Play	5 Mbps down	National	Euro	99	\$55.74	435 Lt	n/a	none	No	month to month	Installation: 99 Lt w/ 1 year contract, free w/ 2 year contract		
	Lietuvos Radijo Ir Televizijos Centras	Entrant		Max (add on service)	Plug & Play	2 Mbps down	National	Euro	10	\$5.63	435 Lt	n/a	none	No	month to month	Installation: 99 Lt w/ 1 year contract, free w/ 2 year contract		
	Lietuvos Radijo Ir Televizijos Centras	Entrant		There	Plug & Play	256 kbps / 128 kbps	National	LVL	121	\$68.13	99 Lt	n/a	none	No	12 months	114 / month & free installation w/ 24 month contract		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Lietuvos Radijo Ir Televizijos Centras	Entrant			Plug & Play	512 kbps / 256 kbps	National	LVL	171	\$96.28	99 Lt	n/a	none	No	12 months	164 / month & free installation w/ 24 month contract		
	Lietuvos Radijo Ir Televizijos Centras	Entrant			Plug & Play	1 Mbps / 512 kbps	National	LVL	280	\$157.66	99 Lt	n/a	none	No	12 months	273 / month & free installation w/ 24 month contract		
Lithuania	Omnitel	Entrant		Omni Connect Optimum	Plug & Play	Up to 512 kbps down	National	unclear	39	\$21.96	none	none	10 € / month.	No	24 months	No		http://www.omnitel.lt/privatiems/internetas/omni_connect/apie_omni_connect/1383
	Omnitel	Entrant		Omni Connect Premium	Plug & Play	Up to 1 Mbps down	National	unclear	69	\$38.85	none	none	10 € / month.	No	24 months	No		
Lithuania	Penk! Kont. Komun. Centras.	Entrant		Sky Eko	FTTH	Lithuania: 10 Mbps; International (afternoon) 1 Mbps; International (morning): 1 Mbps	Šeškinės, Fabijoniškių, Pašilaičių, Justiniškių, Viršuliškių, Piliatės, Karoliniškių, Antakalnis, menagerie, Hazelutis, and Šnipiškių Žirmūnų microdistricts	Euro	34	\$19.14	Free	200.00 zł mounting tax	n/a	no	n/a	No		http://ads2.Sci.lt/www/delivery/afr.php?n=aa854e5d&zoneid=72&cb=633825820316139614/
	Penk! Kont. Komun. Centras.	Entrant		Silver sky	FTTH	Lithuania: 10 Mbps; International (afternoon) 3 Mbps; International (morning): 10 Mbps	Šeškinės, Fabijoniškių, Pašilaičių, Justiniškių, Viršuliškių, Piliatės, Karoliniškių, Antakalnis, menagerie, Hazelutis, and Šnipiškių Žirmūnų microdistricts	Euro	49	\$27.59	Free	200.00 zł mounting tax	n/a	no	n/a	No		
	Penk! Kont. Komun. Centras.	Entrant		Gold Sky	FTTH	Lithuania: 10 Mbps; International (afternoon) 8 Mbps; International (morning): 16 Mbps	Šeškinės, Fabijoniškių, Pašilaičių, Justiniškių, Viršuliškių, Piliatės, Karoliniškių, Antakalnis, menagerie, Hazelutis, and Šnipiškių Žirmūnų microdistricts	Euro	82	\$46.17	Free	200.00 zł mounting tax	n/a	no	n/a	No		
	Penk! Kont. Komun. Centras.	Entrant		Platinum Sky	FTTH	Lithuania: 100 Mbps; International (afternoon) 10 Mbps; International (morning): 25 Mbps	Šeškinės, Fabijoniškių, Pašilaičių, Justiniškių, Viršuliškių, Piliatės, Karoliniškių, Antakalnis, menagerie, Hazelutis, and Šnipiškių Žirmūnų microdistricts	Euro	99	\$55.74	Free	200.00 zł mounting tax	n/a	no	n/a	No		
Lithuania	Telerena	Entrant		Quality Plus Plan: AN1	unclear	3.2 Mbps down	National	Euro	37	\$20.83	n/a	Registration: 200	n/a		month to month	w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration		www.splius.lt/Internetas/Kainos/

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Telerena	Entrant		BN1	unclear	3.2 Mbps down	National	Euro	66	\$37.16	n/a	Registration: 200	n/a		month to month	w/ 12 month contract, registration fee: 50, w/ 24 month contract, free registration		
	Telerena	Entrant		CN1	unclear	4.2 Mbps down	National	Euro	101	\$56.87	n/a	Registration: 200	n/a		month to month	w/ 12 month contract, registration fee: 50, w/ 24 month contract, free registration		
	Telerena	Entrant		DN1	unclear	4.2 Mbps down	National	Euro	120	\$67.57	n/a	Registration: 200	n/a		month to month	w/ 12 month contract, registration fee: 50, w/ 24 month contract, free registration		
	Telerena	Entrant		Quality Plans: A1	unclear	3.2 Mbps down	National	Euro	35	\$19.71	n/a	Registration: 200	n/a		month to month	w/ 12 month contract, registration fee: 50, w/ 24 month contract, free registration		
	Telerena	Entrant		B1	unclear	3.2 Mbps down	National	Euro	64	\$36.04	n/a	Registration: 200	n/a		month to month	w/ 12 month contract, registration fee: 50, w/ 24 month contract, free registration		
	Telerena	Entrant		C1	unclear	4.2 Mbps down	National	Euro	99	\$55.74	n/a	Registration: 200	n/a		month to month	w/ 12 month contract, registration fee: 50, w/ 24 month contract, free registration		
	Telerena	Entrant		D1	unclear	4.2 Mbps down	National	Euro	118	\$66.44	n/a	Registration: 200	n/a		month to month	w/ 12 month contract, registration fee: 50, w/ 24 month contract, free registration		
	Telerena	Entrant		Economic Plans: P1-512	unclear	512 kbps down	National	Euro	20	\$11.26	n/a	Registration: 200	n/a		month to month	w/ 12 month contract, registration fee: 50, w/ 24 month contract, free registration		
	Telerena	Entrant		P1-1024	unclear	1 Mbps down	National	Euro	36	\$20.27	n/a	Registration: 200	n/a		month to month	w/ 12 month contract, registration fee: 50, w/ 24 month contract, free registration		
	Telerena	Entrant		P1-1536	unclear	1.5 Mbps down	National	Euro	56	\$31.53	n/a	Registration: 200	n/a		month to month	w/ 12 month contract, registration fee: 50, w/ 24 month contract, free registration		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Telerena	Entrant		Optical Plus Plan: OO1	FTTH	Lithuania: 30 Mbps down; International: 5 Mbps down	Certain areas of Siauliai and Radviliskis	Euro	25	\$14.08	n/a	Registration: 200	n/a	No	month to month	w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration		
	Telerena	Entrant		OA1	FTTH	Lithuania: 30 Mbps down; International: 15 Mbps down	Certain areas of Siauliai and Radviliskis	Euro	35	\$19.71	n/a	Registration: 200	n/a	No	month to month	w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration		
	Telerena	Entrant		OB1	FTTH	Lithuania: 30 Mbps down; International: 15 Mbps down	Certain areas of Siauliai and Radviliskis	Euro	64	\$36.04	n/a	Registration: 200	n/a	No	month to month	w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration		
	Telerena	Entrant		OC1	FTTH	Lithuania: 30 Mbps down; International: 20 Mbps down	Certain areas of Siauliai and Radviliskis	Euro	99	\$55.74	n/a	Registration: 200	n/a	No	month to month	w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration		
	Telerena	Entrant		Optical Economic Plan: OP1-512	FTTH	Lithuania: 30 Mbps down; International: 512 kbps down	Certain areas of Siauliai and Radviliskis	Euro	20	\$11.26	n/a	Registration: 200	n/a	No	month to month	w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration		
	Telerena	Entrant		OP1-1024	FTTH	Lithuania: 30 Mbps down; International: 1 Mbps down	Certain areas of Siauliai and Radviliskis	Euro	36	\$20.27	n/a	Registration: 200	n/a	No	month to month	w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration		
	Telerena	Entrant		OP1-1536	FTTH	Lithuania: 30 Mbps down; International: 1.5 Mbps down	Certain areas of Siauliai and Radviliskis	Euro	56	\$31.53	n/a	Registration: 200	n/a	No	month to month	w/ 12 month contract, registration fee: 50; w/ 24 month contract, free registration		
Luxembourg	P&T Lux	Incumbent	71%	Junior LuxDSL	DSL	2 Mbps / 256 kbps	National	Euro	26	\$26.83	n/a	n/a	Purchase: 54	No	month to month	Free modem w/ 1 year+ contract		http://www.pt.lu/portal/cache/offence/eleccom/pid/437%3Bsessionid=17BF18955D72FD21CF754840615B56BB/
	P&T Lux	Incumbent		LuxDSL Run	DSL	8 Mbps / 512 kbps	National	Euro	40.1	\$41.38	n/a	n/a	Purchase: 54	No	month to month	Free modem w/ 1 year+ contract		
	P&T Lux	Incumbent		LuxDSL for Professionals	DSL	15 Mbps / 512 kbps	National	Euro	66.4	\$68.52	n/a	n/a	Purchase: 54	No	month to month	Free modem w/ 1 year+ contract		
Luxembourg	Cegecom	Entrant		Basic	DSL	2 Mbps / 256 kbps	National	Euro	26.1	\$26.93	Self: free; On-site: 130.00	none	Purchase: 79	No	12 months	No		http://www.cegecom.lu/ileadmin/cegecom/user_upload/Cegecom/Dateiem/DSL_Tarif_fr_2_01.pdf/
	Cegecom	Entrant		Standard	DSL	8 Mbps / 384 kbps	National	Euro	37.8	\$39.01	Self: free; On-site: 130.00	none	Purchase: 79	No	12 months	No		
	Cegecom	Entrant		Advanced	DSL	8 Mbps / 384 kbps	National	Euro	42.3	\$43.65	Self: free; On-site: 130.00	none	Purchase: 79	No	12 months	No		
	Cegecom	Entrant		Pro	DSL	15 Mbps / 512 kbps	National	Euro	71.1	\$73.37	Self: free; On-site: 130.00	none	Purchase: 79	No	12 months	No		
Malta	Go (Maltacom)	Incumbent	40%	Home	DSL	2 Mbps / 512 kbps	National	Euro	13.86	\$50.96	Self: Free	Activation: Free	Free	No	90 days	No		http://www.go.com.mt/Default.aspx?D=1264/

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Go (Maliacom)	Incumbent			DSL	8 Mbps / 512 kbps	National	Euro	23.18	\$85.22	Self: Free	Activation: Free	Free	No	90 days	No		
	Go (Maliacom)	Incumbent			DSL	12 Mbps / 512 kbps	National	Euro	32.26	\$118.60	Self: Free	Activation: Free	Free	No	90 days	No		
	Go (Maliacom)	Incumbent			DSL	20 Mbps / 512 kbps	National	Euro	70	\$257.35	Self: Free	Activation: Free	Free	No	90 days	No		
Malta	Melita (Onvol)	Entrant		Medium	Cable	5 Mbps / 256 kbps	National	Euro	13.85	\$50.92	10	none	Free	No	n/a	First 3 months 50% off		http://www.melita.com/landing.aspx?h=15/
	Melita (Onvol)	Entrant		Large	Cable	10 Mbps / 512 kbps	National	Euro	30.26	\$111.25	10	none	Free	No	n/a	No		
	Melita (Onvol)	Entrant		Extra Large	Cable	20 Mbps / 512 kbps	National	Euro	65	\$238.97	10	none	Free	No	n/a	No		
	Melita (Onvol)	Entrant		50 Mbps	Cable	50 Mbps / 512 kbps	National	Euro	100	\$367.65	10	none	Free	No	n/a	No		
The Netherlands	KPN	Incumbent	50%	Basic	DSL	3 Mbps / 512 kbps	National	Euro	25	\$28.03	Free	Shipping installation: 8.95	Free	No	n/a	No		http://www.kpn.com/internet/providers.htm
	KPN	Incumbent		Extra	DSL	8 Mbps / 1 Mbps	National	Euro	35	\$39.24	Free	Shipping installation: 8.95	Free	No	n/a	First 3 months 50% off		
	KPN	Incumbent		Premium	DSL	20 Mbps / 1 Mbps	National	Euro	50	\$56.05	Free	Shipping installation: 8.95	Free	No	n/a	First 3 months 50% off		
The Netherlands	Ziggo	Entrant	24%	Z1	Cable	3 Mbps / 512 kbps	National	Euro	19.95	\$22.37	Self: free; On-site: 69.95	none	Free	No	n/a	First 2 months free		http://www.ziggo.nl/producten/internet
	Ziggo	Entrant		Z2	Cable	10 Mbps / 1.5 Mbps	National	Euro	29.95	\$33.58	Self: free; On-site: 69.95	none	Free	No	n/a	First 2 months free		
	Ziggo	Entrant		Z3	Cable	25 Mbps / 4 Mbps	National	Euro	47.95	\$53.76	Self: free; On-site: 69.95	none	Free	No	n/a	First 2 months free		
The Netherlands	Het Net	Entrant	12%	Surf Boarding	DSL	1.5 Mbps / 256 kbps	National	Euro	19.95	\$22.37	Connection: Free	none	Free	No	12 months	First 12 months, 9.95 / month		http://www.hetnet.nl/Surfen.htm/
	Het Net	Entrant		Quick Browsing	DSL	8 Mbps / 1 Mbps	National	Euro	24.95	\$27.97	Connection: Free	none	Free	No	12 months	First 12 months, 19.95 / month		
The Netherlands	Online (T-Mobile)	Entrant		ADSL Basic	DSL	20 Mbps / 1 Mbps	National	Euro	18	\$20.18	Connection: Free	shipping and handling: 25	Free	No	12 months	Discount for first 3 months: 10		http://www.online.nl/aanbiedingen/ads-extra
	Online (T-Mobile)	Entrant		ADSL Extra	DSL	20 Mbps / 1 Mbps	National	Euro	20	\$22.42	Connection: Free	shipping and handling: 25	Free	No	12 months	Discount for first 3 months: 10		
The Netherlands	Tele2	Entrant	6%	ADSL Super	DSL	20 Mbps / 1 Mbps	National	Euro	19.95	\$22.37	Self: Free	Admin costs and postage: 14.95	Free	No	n/a	No		http://se.tele2.nl/internet/1_Home_internet.html/
The Netherlands	UPC	Entrant	12%	Internet 5	Cable	5 Mbps / 512 kbps	National	Euro	18	\$20.18	Free	9.95 if not a customer of UPC	Deposit: 45	No	12 months	No		http://www.upc.nl/internet
	UPC	Entrant		Fiber Power 25	Cable	25 Mbps / 1.5 Mbps	National	Euro	25	\$28.03	Free	9.95 if not a customer of UPC	Deposit: 45	No	12 months	No		
	UPC	Entrant		Fiber Power 30	Cable	30 Mbps / 3 Mbps	National	Euro	30	\$33.63	Free	9.95 if not a customer of UPC	Deposit: 45	No	12 months	No		
	UPC	Entrant		Fiber Power 60	Cable	60 Mbps / 6 Mbps	National	Euro	40	\$44.84	Free	9.95 if not a customer of UPC	Deposit: 45	No	12 months	No		
	UPC	Entrant		Fiber Power 90	Cable	90 Mbps / 6 Mbps	National	Euro	50	\$56.05	Free	9.95 if not a customer of UPC	Deposit: 45	No	12 months	No		
	UPC	Entrant		Fiber Power 120	Cable	120 Mbps / 10 Mbps	National	Euro	70	\$78.48	Free	9.95 if not a customer of UPC	Deposit: 45	No	12 months	No		
The Netherlands	XLAALL	Entrant		ADSL Start	DSL	4 Mbps / 1 Mbps	National	Euro	29.95	\$33.58	Free	none	Free	No	12 months	w/ 24 month contract: 1 year of free Internet Mobile Go		http://www.xs4all.nl/en/allediensten/toegang/ads/actie_juni2009.php/

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	XL4ALL	Entrant		ADSL Lite	DSL	8 Mbps / 1 Mbps	National	Euro	39.95	\$44.79	Free	none	Free	No	12 months	w/ 24 month contract: 1 year of free Internet Mobile Go		
	XL4ALL	Entrant		ADSL Basic	DSL	20 Mbps / 1 Mbps	National	Euro	54.95	\$61.60	Free	none	Free	No	12 months	w/ 24 month contract: 1 year of free Internet Mobile Go		
	XL4ALL	Entrant		ADSL Fast & Advanced Website	DSL	20 Mbps / 1 Mbps	National	Euro	74.95	\$84.02	Free	none	Free	No	12 months	w/ 24 month contract: 1 year of free Internet Mobile Go		
Norway	Telenor	Incumbent	50%	Broadband Basic	DSL	1500 / 400kbps	National	Kroner	299	\$31.12		Line rental fee Kroner 79	Free	No	12 months	No		http://www.telenor.no/privat
	Telenor	Incumbent		Broadband Medium	DSL	5000/ 500 kbps	National	Kroner	399	\$41.52		Line rental fee Kroner 79	Free	No	12 months	No		
	Telenor	Incumbent		Broadband Premium	DSL	16000/ 800 kbps	National	Kroner	499	\$51.93		Line rental fee Kroner 79	Free	No	12 months	No		
	Telenor	Incumbent		Broadband Turbo	DSL	16000/ 800 kbps	National	Kroner	399	\$41.52		Line rental fee Kroner 79	Free	No	12 months	No		
Norway	NextGenTel	Entrant	11%	ADSL 1000	DSL	1000/ 300 kbps	National	Kroner	249	\$25.91	699	Line rental fee Kroner 79	Free	No	12 months	No		http://www.nextgentel.no
	NextGenTel	Entrant		ADSL 2500	DSL	2500/ 500 kbps	National	Kroner	289	\$30.08	699	Line rental fee Kroner 79	Free	No	12 months	No		
	NextGenTel	Entrant		ADSL Full Speed	DSL	6500/ 700 kbps	National	Kroner	389	\$40.48	699	Line rental fee Kroner 79	Free	No	12 months	No		
	NextGenTel	Entrant		ADSL 3500 Mega	DSL	3500/ 1000 kbps	National	Kroner	319	\$33.20	699	Line rental fee Kroner 79	Free	No	12 months	No		
	NextGenTel	Entrant		ADSL 4500 Mega	DSL	4500/ 1000 kbps	National	Kroner	349	\$36.32	699	Line rental fee Kroner 79	Free	No	12 months	No		
	NextGenTel	Entrant		ADSL 6000 Mega	DSL	6000/ 1000 kbps	National	Kroner	398	\$41.42	699	Line rental fee Kroner 79	Free	No	12 months	No		
	NextGenTel	Entrant		ADSL Mega Free	DSL	20000 / 1000	National	Kroner	469	\$48.81	699	Line rental fee Kroner 79	Free	No	12 months	No		
Norway	Ventelo	Entrant	5%	X-Small	DSL	1500/500 kbps	National	Kroner	269	\$27.99	599	Line rental fee Kroner 79		No	12 months	No		http://www.ventelo.no
	Ventelo	Entrant		Small	DSL	2500/640 kbps	National	Kroner	299	\$31.12	599	Line rental fee Kroner 79		No	12 months	No		
	Ventelo	Entrant		Medium	DSL	3500/640 kbps	National	Kroner	349	\$36.32	599	Line rental fee Kroner 79		No	12 months	No		
	Ventelo	Entrant		Large	DSL	4500/ 640 kbps	National	Kroner	399	\$41.52	599	Line rental fee Kroner 79		No	12 months	No		
	Ventelo	Entrant		X-Large	DSL	6500/ 640 kbps	National	Kroner	449	\$46.73	599	Line rental fee Kroner 79		No	12 months	No		
	Ventelo	Entrant		ADSL+2	DSL	20000/ 1000 kbps	National	Kroner	469	\$48.81	599	Line rental fee Kroner 79		No	12 months	No		
Norway	Get		8%	M	Cable	3500/1000 kbps	Available only in Oslo Asker, Buskerud, Østfold, Bergen, Stavanger, Haugesund, Kristiansand and Trondheim.	Kroner	149.5	\$15.56	Free		Free	No	12 months	Yes, half of regular price effective till July 31, 2009		http://get.no/web/omGet/
	Get			L	Cable	7000/1000 kbps	Available only in Oslo Asker, Buskerud, Østfold, Bergen, Stavanger, Haugesund, Kristiansand and Trondheim.	Kroner	199.5	\$20.76	Free		Free	No	12 months	Yes, half of regular price effective till July 31, 2009		
	Get			XL	Cable	17500/1750 kbps	Available only in Oslo Asker, Buskerud, Østfold, Bergen, Stavanger, Haugesund, Kristiansand and Trondheim.	Kroner	249.5	\$25.97	Free		Free	No	12 months	Yes, half of regular price effective till July 31, 2009		

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Get			Xtreme	Cable	26000/2000 kbps	Available only in Oslo, Asker, Buskerud, Ostfold, Bergen, Stavanger, Haugesund, Kristiansand and Trondheim.	Kroner	349.5	\$36.37	Free		Free	No	12 months	Yes, half of regular price effective till July 31, 2009		
Poland	TP	Incumbent	57%	256	ADSL	256 kbps	National	Poland Zlotych	49	\$23.58	Free			No	12 months			http://www.tp.pl
	TP	Incumbent		512	ADSL	512 kbps	National	Poland Zlotych	54	\$25.99	Free			No	12 months			
	TP	Incumbent		1 mb	ADSL	1000 kbps	National	Poland Zlotych	64	\$30.80	Free			No	12 months			
	TP	Incumbent		2 mb	ADSL	2000 kbps	National	Poland Zlotych	79	\$38.02	Free			No	12 months			
	TP	Incumbent		6 mb	ADSL	6000 kbps	National	Poland Zlotych	124	\$59.67	Free			No	12 months			
Poland	Aster Group	Entrant	3%	TwojSwiat	Cable	10Mbps/1Mbps	National	Poland Zlotych	144	\$69.30	Free		Free			no	no	http://translate.google.com/translate?hl=en&sl=pl&tl=en&u=http%3A%2F%2Fwww.aster.pl%2FInternet%2F
	Aster Group	Entrant		TwojDom	Cable	8Mbps/512Kbps	National	Poland Zlotych	118	\$56.79	Free		Free			no	no	
	Aster Group	Entrant		TwojNetPlus	Cable	2Mbps/256Kbps	National	Poland Zlotych	84	\$40.42	Free		Free			no	no	
	Aster Group	Entrant		TwojNet	Cable	1Mbps/128Kbps	National	Poland Zlotych	73.99	\$35.61	Free		Free			no	no	
Portugal	Portugal Telecom	Incumbent	43%	Sapo ADSL 8Mb	ADSL	8 Mb	National	Euro	19.99	\$27.42	25			ADSL+phone+Mobile bb				http://www.telecom.pt
	Portugal Telecom	Incumbent		Sapo ADSL 8Mb	ADSL	12 Mb	National	Euro	22.49	\$30.85	25			ADSL+phone+Mobile bb				
	Portugal Telecom	Incumbent		Sapo ADSL 8Mb	ADSL	24 Mb	National	Euro	24.99	\$34.28	25			ADSL+phone+Mobile bb				
Portugal	Portugal Telecom	Incumbent		MEO Fibra 20 Megas	fiber	20 Mbps	National	Euro	49.9	\$68.45	25			Video+internet+phone+mobile bb		yes?		
	Portugal Telecom	Incumbent		MEO Fibra 100 Megas	fiber	100 Mbps	National	Euro	64.9	\$89.03	25			Video+internet+phone+mobile bb		yes?		
	Cabovisao	Entrant	10%	Netvisao banda larga 3 Mb	fiber + cable + xdsl??	3072Kb/256Kb		Euro	17.99	\$24.68	25.5			Double/triple package only			10 Gb	http://www.cabovisao.pt/
	Cabovisao	Entrant		Netvisao banda larga 10 Mb		10240Kb/512Kb		Euro	23.99	\$32.91	25.5			Double/triple package only				
	Cabovisao	Entrant		Netvisao banda larga 30 Mb		30720Kb/1024Kb		Euro	44.99	\$61.71	25.5			Double/triple package only				
	Cabovisao	Entrant		Internet isolado 10 Mb		10240Kb/512Kb		Euro	34.71	\$47.61	51 install +25.5 activation?						10Gb	
	Cabovisao	Entrant		Internet isolado 20 Mb		20480Kb/1024Kb		Euro	44.63	\$61.22	51 install +25.5 activation?						30Gb	
	Cabovisao	Entrant		Internet isolado 30 Mb		30720Kb/1024Kb		Euro	58.51	\$80.26	51 install +25.5 activation?						50Gb	
Portugal	Optimus/Novis	Entrant		Kangaroo fixed	ADSL	4 Mbps	National	Euro	25.4	\$34.84	none				24 months		6 Gb	http://www.optimus.pt/Empresas
Portugal	ZON	Entrant	27%	5Mb ZON Net Cable standalone	cable	5 Mb / 128Kb	National	Euro	19.99	\$27.42	40 install			requires cable TV service			10 Gb international	http://www.zon.pt
	ZON	Entrant		10Mb ZON Net Cable standalone	cable	10 Mb / 256 Kb	National	Euro	24.99	\$34.28	40 install			requires cable TV service				
	ZON	Entrant		20Mb ZON Net Cable standalone	cable	20 Mb / 1 Mb	National	Euro	35.99	\$49.37	40 install			requires cable TV service				
	ZON	Entrant		30Mb ZON Net Cable standalone	cable	30 Mb / 1 Mb	National	Euro	59.99	\$82.29	40 install			requires cable TV service				
Romania	Romtelecom	Incumbent	22%	Clicknet 2 Mbps	ADSL	2084 kbps/ 512 kbps	National	Euro	4.88	\$2.76	free			requires phone service				http://www.romtelecom.ro
	Romtelecom	Incumbent		Clicknet 4 Mbps	ADSL	4096 kbps/ 512 kbps	National	Euro	7.02	\$3.97				requires phone service				
	Romtelecom	Incumbent		Clicknet 6 Mbps	ADSL	6144 kbps/ 512 kbps	National	Euro	9.4	\$5.32				requires phone service				

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Romtelecom	Incumbent		Clicknet 8 Mbps	ADSL	8192 kbps/ 768 kbps	National	Euro	14.16	\$8.01				requires phone service				
	Romtelecom	Incumbent		Clicknet 20 Mbps	ADSL	20480 kbps/ 1024 kbps	National	Euro	24.87	\$14.07				requires phone service				
	Romtelecom	Incumbent		Clicknet VDSL 20 Mbps	VDSL	20 Mbps / 2 Mbps	Timisoara, Cluj, Iasi, Ploiesti Braila, Bacau, Constanta, Piatra Neamt, Sibiu, Cluj Napoca, Oradea	Euro	9.9	\$5.60				requires phone service				
	Romtelecom	Incumbent		Clicknet VDSL 30 Mbps	VDSL	30 Mbps / 3 Mbps	Timisoara, Cluj, Iasi, Ploiesti Braila, Bacau, Constanta, Piatra Neamt, Sibiu, Cluj Napoca, Oradea	Euro	14.9	\$8.43				requires phone service				
	Airbites	Entrant		internet			Only in Bucuresti, Roman, Iasi, Bacau, Barlad, Onesti		5	\$2.83		\$6/month management fee for < 5 Mbps			12 months			http://airbites.ro
	UPC Romania	Entrant		UPC Internet Small		2 Mbps/ 512 kbps	National	lei	22	\$12.45	free							http://www.upc.ro
Romania	UPC Romania	Entrant		UPC Internet Medium		12 Mbps/ 2 Mbps	National	lei	32	\$18.11	free							
	UPC Romania	Entrant		UPC Internet Large		24 Mbps/ 4 Mbps	National	lei	52	\$29.43	free							
Singapore	Singnet	Incumbent	51%	SingNet Broadband 15Mbps	ADSL	Up to 15Mbps/upto 1Mbps	National	Singapore dollar	\$59.90	\$42.04	free	\$42.80 activation charge/ \$9.81 line rental charge	free	no	24 months	Yes	unlimited	http://www.insing.com/singnet/home/
	Singnet	Incumbent		SingNet Broadband 10Mbps	ADSL	Up to 10Mbps/Upto 1Mbps	National	Singapore dollar	\$46.90	\$32.91	free	\$42.80 activation charge/ \$9.81 line rental charge	free	no	24 months	Yes	unlimited	http://www.insing.com/singnet/home/
	Singnet	Incumbent		SingNet Broadband 6Mbps	ADSL	Up to 6000kbps/ Up to 512 kbps	National	Singapore dollar	\$35.90	\$25.19	free	\$42.80 activation charge/ \$9.81 line rental charge	free	no	24 months	Yes	unlimited	http://www.insing.com/singnet/home/
	Singnet	Incumbent		SingNet Broadband 3Mbps	ADSL	Up to 3000kbps/ Up to 350 kbps	National	Singapore dollar	\$23.72	\$16.65	free	\$42.80 activation charge/ \$9.81 line rental charge	free	no	24 months	Yes	unlimited	http://www.insing.com/singnet/home/
Singapore	StarHub		38%	Max Online Surf lite	Cable	2 Mbps/256 kbps	National	Singapore dollar	\$29.96	\$21.02	\$53.50	\$32.10 activation charge	free		12 months	yes		
	StarHub			Max Online Express	Cable	8 Mbps/768 kbps	National	Singapore dollar	\$59.92	\$42.05	\$53.50	\$32.10 activation charge	free		12 months	yes		
	StarHub			Max Online Premium	Cable	12 Mbps/ 1.2 Mbps	National	Singapore dollar	\$81.32	\$57.07	\$53.50	\$32.10 activation charge	free		12 months	yes		
	StarHub			Max Online Ultimate	Cable	100 Mbps/ 10 Mbps	National	Singapore dollar	\$124.12	\$87.10	\$53.50	\$32.10 activation charge	free		12 months	yes		
Singapore	PacNet			Broadband 512 kbps unlimited plan	ADSL	512 kbps	National	Singapore dollar	\$34.98	\$24.55	free	\$42.75 activation charge	free		12 months	yes	unlimited	http://www.pacific.net.sg/personal/index.htm
	PacNet			Cable 30 mbps unlimited plan	Cable	30 Mbps/1 Mbps	National	Singapore dollar	\$124.12	\$87.10	free	\$42.75 activation charge	free		12 months		unlimited	
	PacNet			Cable 12 mbps unlimited plan	Cable	12 Mbps/ 984 kbps	National	Singapore dollar	\$69.55	\$48.81	free	\$42.75 activation charge	free		12 months		unlimited	

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	PacNet			Cable 8 mbps unlimited plan	Cable	8 Mbps/256 kbps	National	Singapore dollar	\$59.92	\$42.05		\$42.75 activation charge	free		12 months		unlimited	
Slovakia	T-Com Slovak	Incumbent	54%	Turbo 1	ADSL	2048 kbps / 256 kbps	National, where feasible	Euro	13.95	\$0.75	1			1 euro/mo higher w/o pho	24 months	yes		http://www.t-com.sk
	T-Com Slovak	Incumbent		Turbo 2	ADSL	2048 kbps / 256 kbps	National, where feasible	Euro	21.95	\$1.19	1			2 euro/mo higher w/o pho	24 months	yes		
	T-Com Slovak	Incumbent		Turbo 3	ADSL	3584 kbps / 256 kbps	National, where feasible	Euro	24.95	\$1.35	1			3 euro/mo higher w/o pho	24 months	yes		
	T-Com Slovak	Incumbent		Turbo 4	ADSL	12,288 kbps / 512 kbps	National, where feasible	Euro	36.95	\$2.00	1			3 euro/mo higher w/o pho	24 months	yes		
Slovakia	Orange	Entrant		Internet at home		3.6 Mbps (up to 5 GB, 64 kbps after)		Euro	14.9	\$0.81								http://www.orange.sk/
	Orange	Entrant		Fibernet Promo	fiber	10 Mbps/ 1 Mbps	12 cities	Euro	16.5	\$0.89								
	Orange	Entrant		Fibernet Start	fiber	20 Mbps/ 2 Mbps	12 cities	Euro	19.9	\$1.08								
	Orange	Entrant		Fibernet Klasik	fiber	40 Mbps/ 4 Mbps	12 cities	Euro	23.9	\$1.29								
Slovakia	Orange	Entrant		Fibernet Premium	fiber	70 Mbps / 7 Mbps	12 cities	Euro	39.5	\$2.14								
Slovakia	UPC Slovakia	Entrant		Chello Silver	cable	3072/384 kbps	21 cities	Euro	15	\$0.81	1 (self-install)				24 months			http://www.upc.sk
	UPC Slovakia	Entrant		Chello Gold	cable	15360/1536 kbps	21 cities	Euro	22	\$1.19	1 (self-install)				24 months			
	UPC Slovakia	Entrant		Chello Diamond	cable	30720/3072 kbps	21 cities	Euro	27	\$1.46	1 (self-install)				24 months			
	UPC Slovakia	Entrant		Business Class	cable	30720/4096 kbps	21 cities	Euro	35	\$1.89	1 (self-install)				24 months			
Slovenia	Telekom Slovenije	Incumbent	48%		ADSL	2 Mbps/384 kbps		Euro	26	\$38.69								http://www.telekom.si/en/home
	Telekom Slovenije	Incumbent			VDSL2	1 Mbps/ 1 Mbps		Euro	26	\$38.69								
	Telekom Slovenije	Incumbent			fiber	60 Mbps / 60 Mbps	where available	Euro	26	\$38.69								
	UPC Telemach	Incumbent Cable		Internet XS	cable	512 k / 128 k	3 cities	Euro	15	\$22.32	40 (w/o 12m contract?)		opt. 70.9 to buy	requires cable service	12 months			http://www.upc.si/
	UPC Telemach	Incumbent Cable		Internet S	cable	2 M / 384 k	3 cities	Euro	20	\$29.76	40 (w/o 12m contract?)		opt. 70.9 to buy	8.95/b767	12 months			
	UPC Telemach	Incumbent Cable		Internet M	cable	10 M / 768 k	3 cities	Euro	30	\$44.64	40 (w/o 12m contract?)		opt. 70.9 to buy	requires cable service	12 months			
	UPC Telemach	Incumbent Cable		Internet L	cable	15 M / 1.5 M	3 cities	Euro	40	\$59.52	40 (w/o 12m contract?)		opt. 70.9 to buy	requires cable service	12 months			

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	UPC Telemach	Incumbent Cable		Internet XL	cable	25 M / 2 M	3 cities	Euro	50	\$74.40	40 (w/o 12m contract?)		opt. 70.9 to buy	requires cable service	12 months			
Slovenia	Amis	Entrant		Fiber	fiber	15 M / 15 M		Euro	16.27	\$24.21								http://www.amis.net
	Amis	Entrant			fiber	20 / 20		Euro	20	\$29.76								
	Amis	Entrant			fiber	25 / 25		Euro	25	\$37.20								
	Amis	Entrant			fiber	50 / 50		Euro	48	\$71.43								
	Amis	Entrant		Cable	cable	1 M / 256 k		Euro	16.27	\$24.21				requires cable service				
	Amis	Entrant			cable	1.5 M / 256 k		Euro	1.78	\$2.65				requires cable service				
	Amis	Entrant			cable	2 M / 384 k		Euro	19.27	\$28.68				requires cable service				
	Amis	Entrant			cable	4 M / 512 k		Euro	22.27	\$33.14				requires cable service				
	Amis	Entrant			cable	4 M / 768 k		Euro	19	\$28.27				requires cable service				
Slovenia	T-2	Entrant		FTTH	fiber	10 M / 10 M		Euro	14	\$20.83	free							http://www.t-2.net/
	T-2	Entrant			fiber	100 M / 10 M		Euro	20	\$29.76	free							
	T-2	Entrant			fiber	50 M / 50 M		Euro	50	\$74.40	free							
	T-2	Entrant			fiber	100 M / 100 M		Euro	100	\$148.81	free							
	T-2	Entrant		VDSL	VDSL	1 M / 256 k		Euro	14	\$20.83	free			6 higher w/o phone				
	T-2	Entrant			VDSL	4 M / 1 M		Euro	18	\$26.79	free			6 higher w/o phone				
	T-2	Entrant			VDSL	10 M / 2 M		Euro	23	\$34.23	free			6 higher w/o phone				
	T-2	Entrant			VDSL	20 M / 4 M		Euro	28	\$41.67	free			6 higher w/o phone				
	T-2	Entrant			VDSL	40 M / 8 M		Euro	49	\$72.92	free			6 higher w/o phone				
	T-2	Entrant			VDSL	60 M / 25 M		Euro	70	\$104.17	free			6 higher w/o phone				
Spain	Telefonica	Incumbent	56%	Duo ADSL 6 Mb	ADSL	6 MBPS/320 kbps	where available	Euro	29.9	\$37.52		line rental, if needed, 13.97 0 per month		yes - national calling to landlines included + 60 minutes fixed-mobile call 0 per month	12 months	yes, expires Oct 4, 2009 free router online only	none	www.telefonica.es

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	Telefonica	Incumbent		Duo ADSL 10 Mb	ADSL	10 MBPS/320 kbps	where available	Euro	33.9	\$42.53		line rental, if needed, 13.97 per month	0	yes - national calling to landlines included	12 months	yes, expires Oct 4, 2009, free router on line only	none	www.telefonica.es
	Telefonica	Incumbent		Imagenio Conexion 6 Mb	ADSL	6 MBPS/320 kbps	where available	Euro	32.9	\$41.28	39.95	line rental, if needed, 13.97 per month	0	yes - national calling + TV	12 months	yes, expires Oct 4, 2009	none	www.telefonica.es
	Telefonica	Incumbent		Imagenio Conexion 10 Mb	ADSL	10 MBPS/320 kbps	where available	Euro	36.9	\$46.30	39.95	line rental, if needed, 13.97 per month	0	yes - national calling + TV	12 months	yes, expires Oct 4, 2009	none	www.telefonica.es
	Telefonica	Incumbent		Trio Imagenio Familiar + ADSL 6 Mb + Llamadas	ADSL	6 MBPS/320 kbps	where available	Euro	44.9	\$56.34		line rental, if needed, 13.97 per month, decoder 6.50 per month	0	yes - national calling + TV + 60 minutes fixed-mobile calls per month	12 months	yes, expires Oct 4, 2009	none	www.telefonica.es
	Telefonica	Incumbent		Trio Imagenio Familiar + ADSL 10 Mb + Llamadas	ADSL	10 MBPS/320 kbps	where available	Euro	48.9	\$61.36		line rental, if needed, 13.97 per month, decoder 6.50 per month	0	yes - national calling + TV	12 months	yes, expires Oct 4, 2009	none	www.telefonica.es
	Telefonica	Incumbent								\$0.00								
Spain	Ono	Entrant	13%	ONO 2: Telefono + Banda Ancha 3 Mb	cable	3 MBPS/150 kbps	where available	Euro	29.9	\$37.52	0 (new clients)			yes - national calling to fixed lines included	18 months	yes, expires Sept 30, 2009		www.ono.es
	Ono	Entrant		ONO 2: Telefono + Banda Ancha 6 Mb	cable	6 MBPS/300 kbps	where available	Euro	29.9	\$37.52	0			yes - national calling to fixed lines included	18 months	yes, expires Sept 30, 2009		www.ono.es
	Ono	Entrant		ONO 2: Telefono + Banda Ancha 12 Mb	cable	12 MBPS/ 500 kbps	where available	Euro	29.9	\$37.52	0			yes - national calling to fixed lines included	18 months	yes, expires Sept 30, 2009		www.ono.es
	Ono	Entrant		ONO 2: Telefono + Banda Ancha 50 Mb	cable	50 MBPS/ 3 MBPS	Madrid	Euro	49.9	\$62.61	0			yes - national calling to fixed lines included	18 months	yes, expires Sept 30, 2009	none	www.ono.es
	Ono	Entrant		ONO 3: Telefono + Television Especial + Banda Ancha 3 Mb	cable	3 MBPS/150 kbps	where available	Euro	34.9	\$43.79	0			yes - national calling to fixed lines, basic cable TV included	18 months	yes, expires Sept 30, 2009		www.ono.es
Spain	Ono	Entrant		ONO 3: Telefono + Television Especial + Banda Ancha 6 Mb	cable	6 MBPS/300 kbps	where available	Euro	39.9	\$50.06	0			yes - national calling to fixed lines, basic cable TV included	18 months	yes, expires Sept 30, 2009		www.ono.es
	Ono	Entrant		ONO 3: Telefono + Television Especial + Banda Ancha 12 Mb	cable	12 MBPS/ 500 kbps	where available	Euro	39.9	\$50.06	0			yes - national calling to fixed lines, basic cable TV included	18 months	yes, expires Sept 30, 2009		www.ono.es
	Ono	Entrant		ONO 3: Telefono + Television Especial + Banda Ancha 50 Mb	cable	50 Mbps / 3 Mbps	Madrid	Euro	54.9	\$68.88	0			yes - national calling to fixed lines, basic cable TV included	18 months	yes, expires Sept 30, 2009	none	www.ono.es
	Orange	Entrant	6%	Maxima Velocidad Wi-F + TV + llamadas (with Orange line)	ADSL	20 Mbps / 1 Mbps		Euro	34.95	\$43.85	0 self install	line included, line adaptor 35 Euros		yes - national calling to fixed lines included and 32 channels of TV.	18 months			www.orange.es
Spain	Orange	Entrant		Todo en 1: ADSL Maxima Velocidad Linea + ADSL + llamadas (with Orange line)	ADSL	20 MBPS/ 1 Mbps		Euro	34.95	\$43.85	0 self install	line included, line adaptor 35 Euros		yes - national calling to fixed lines	18 months			www.orange.es
	Orange	Entrant		ADSL + llamadas (without Orange line) 6 Mb	ADSL	6 Mbps / 512 kbps		Euro	10	\$12.55	0 self install			yes - national calling to fixed lines included		yes - but expiration not yet determined		www.orange.es
	Orange	Entrant		ADSL + llamadas (without Orange line) 6 Mb + llamadas nacionales + TV	ADSL	6 Mbps / 512 kbps		Euro	24.95	\$31.30	0 self install			yes - national calling to fixed lines and TV included	18 months			www.orange.es
	Orange	Entrant		Oferta exclusiva ADSL Orange y Digital +	ADSL	6 Mbps / 512 kbps		Euro			0 self install	line not included 20.95 per month for digital + TV		yes - national calling to fixed lines and digital + TV included	18 months			www.orange.es
	Orange	Entrant		Empresa: ADSL 10 Mb with line	ADSL	10 Mbps / 1 Mbps		Euro	15	\$18.82	0 self install	line included		yes - national calling to fixed lines included	18 months			www.orange.es
	Orange	Entrant		ADSL 10 Mb without line	ADSL	10 Mbps / 1 Mbps		Euro	15	\$18.82	0 self install	line not included		yes - national calling to fixed lines included	18 months			www.orange.es
	Orange	Entrant		Professional: ADSL 4 Mb with line	ADSL	4 Mbps / 1 Mbps		Euro	15	\$18.82	0 self install	10 line cost per month		yes - national calling to fixed lines included	18 months			www.orange.es

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL	
	Orange	Entrant		Professional: ADSL 4 Mb without line	ADSL	4 Mbps / 1 Mbps		Euro	15	\$18.82	0 self-install	line not included		yes - national calling to fixed lines included	18 months			www.orange.es	
Sweden	Telia Sonera	Incumbent	38%	Broadband	ADSL	20-0.25 Mbps	nationwide		229	\$24.46	0		99		18 months				
	Telia Sonera	Incumbent		Broadband	ADSL	1.5-2 Mbps	nationwide		259	\$27.66	0		99		18 months				
	Telia Sonera	Incumbent		Broadband	ADSL	6-8 Mbps	nationwide		309	\$33.00	0		99		18 months				
	Telia Sonera	Incumbent		Broadband	ADSL	12-24 Mbps	nationwide		359	\$38.34	0		99		18 months				
Sweden	Bredbandsbolaget	Entrant	15%	Bredband 60	DSL	60 Mbps	nationwide	Kroner	399	\$42.61		495	69					http://www.bredbandsbolaget.se/wps/portal/privat/bredband?pages=new&WCM_GLOBAL_CONTEXT=/wps/wcm/connect/b2/privat/bredband/bredband60/	
	Bredbandsbolaget	Entrant		Bredband 24	DSL	24 Mbps	nationwide	Kroner	349	\$37.27		495	69						
	Bredbandsbolaget	Entrant		Bredband 8	DSL	8 Mbps	nationwide	Kroner	319	\$34.07		495	69						
	Bredbandsbolaget	Entrant		Bredband 2	DSL	2 Mbps	nationwide	Kroner	249	\$26.59		495	69						
Sweden	ComHem	Entrant	13%	Broadband Extra small	Cable	5 Mbps/25Mbps	nationwide	Kroner	99	\$10.57								http://www.comhem.se/	
	ComHem	Entrant		Broadband small	Cable	2 Mbps/ .5 Mbps	nationwide	Kroner	199	\$21.25									
Sweden	ComHem	Entrant		Broadband Medium	Cable	10 Mbps	nationwide	Kroner	99	\$10.57					12 months	Yes			
	ComHem	Entrant		Broadband Large	Cable	24 Mbps	nationwide	Kroner	99	\$10.57					12 months	Yes			
Sweden	Glocalnet	Entrant	5%	Broadband 1 -4	ADSL	1 Mbps	nationwide	Kroner	249	\$26.59	0				12 months			http://www.glocalnet.se/index.jsp/	
	Glocalnet	Entrant		Broadband 5 -10	ADSL	5 Mbps	nationwide	Kroner	279	\$29.80	0				12 months				
	Glocalnet	Entrant		Broadband 12- 24	ADSL	12 Mbps	nationwide	Kroner	299	\$31.93	0				12 months				
United Kingdom	British Telecom	Incumbent	26%	BT Total Broadband, Option 1	wireless	up to 20MBPS (upload unspecified)		Pound	7.78	\$11.95	0 (self-install)		0 no		18 months	yes - 3 months, 15.65 thereafter.	10 GB	www.bt.com	
	British Telecom	Incumbent		BT Total Broadband, Option 2	wireless	up to 20MBPS (upload unspecified)		Pound	13.69	\$21.03	0 (self-install)		0 no		18 months	yes - 3 months, 20.54 thereafter.	20 GB	www.bt.com	
	British Telecom	Incumbent		BT Total Broadband, Option 3	wireless	up to 20MBPS (upload unspecified)		Pound	18.59	\$28.56	0 (self-install)		0 no		18 months	yes - 3 months, 24.46 thereafter.	unlimited	www.bt.com	
	British Telecom	Incumbent		Broadband and TV - simplicity	wireless	up to 20MBPS (upload unspecified)		Pound	18.59	\$28.56	0 (self-install)	7.78 per month for TV + 11.25 line rental per month	0	yes - bb, calls, and on-demand TV	18 months		15.65 thereafter (+ 14.68 TV +	10 GB	www.bt.com
	British Telecom	Incumbent		Broadband and TV - more BB	wireless	up to 20MBPS (upload unspecified)		Pound	0	\$0.00	0 (self-install)	7.78 per month for TV + 11.25 line rental per month	0	yes - bb, calls, and on-demand TV	18 months		24.46 thereafter (+ 14.68 TV +	unlimited	www.bt.com

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promotional Price	Usage limit	Broadband Provider's URL
	British Telecom	Incumbent		Broadband and TV - maximum	wireless	up to 20MBPS (upload unspecified)		Pound	23.48	\$36.07	0 (self-install)	4.95 per month for TV + 11.25 line rental per month	0	yes - bb, calls, and on-demand TV	18 months	yes - 3 months, 24.46 thereafter (+19.57 for TV)	unlimited	www.bt.com
	British Telecom	Incumbent		Broadband and calls - get connected	wireless	up to 20MBPS (upload unspecified)		Pound	11.25	\$17.28	0 (self-install)	11.25 line rental	0	yes - bb & phone	18 months	yes - 3 months, 15.65 thereafter (+11.25 line rental)	10 GB	www.bt.com
	British Telecom	Incumbent		Broadband and calls - more talk	wireless	up to 20MBPS (upload unspecified)		Pound	16.2	\$24.88	0 (self-install)	4.95 per month for calls + 11.25 line rental per month	0	yes - bb & phone	18 months	yes - 3 months, 15.65 thereafter (+4.95 for calls + line rental)	10 GB	www.bt.com
	British Telecom	Incumbent		Broadband and calls - unlimited	wireless	up to 20MBPS (upload unspecified)		Pound	0	\$0.00	0 (self-install)	4.95 per month for calls + 11.25 line rental per month	0	yes - bb & phone	18 months	yes - 3 months, 24.46 thereafter (+4.95 for calls + line rental)	unlimited	www.bt.com
	British Telecom	Incumbent		calls, BB and TV - starter	wireless	up to 20MBPS (upload unspecified)		Pound	0	\$0.00	0 (self-install)	7.34 per month for TV + 11.25 line rental per month	0	yes - bb, TV and phone	18 months	yes - 3 months, 15.65 thereafter (+14.68 TV + 11.25 line rental)	10 GB	www.bt.com
	British Telecom	Incumbent		calls, BB and TV - more access	wireless	up to 20MBPS (upload unspecified)		Pound	0	\$0.00	0 (self-install)	12.23 per month for TV + 11.25 line rental per month	0	yes - bb, TV and phone	18 months	yes - 3 months, 15.65 thereafter (+19.57 TV + 11.25 line rental)	10 GB	www.bt.com
	British Telecom	Incumbent		calls, BB and TV - full house	wireless	up to 20MBPS (upload unspecified)		Pound	0	\$0.00	0 (self-install)	12.23 per month for TV + 11.25 line rental per month	0	yes - bb, TV and phone	18 months	yes - 3 months, 24.46 thereafter (+19.57 TV + 11.25 line rental)	unlimited	www.bt.com
United Kingdom	BksyB	Entrant	11%	Sky Broadband Base	ADSL+2	up to 2 MBPS / up to 400 KBPS	where available (71% of country)	Pound	5	\$7.68	60	11.25 line rental from BT	0	no	12 months	no	2 GB	www.sky.com
	BksyB	Entrant		Sky Broadband Base with Sky Talk	ADSL+2	up to 2 MBPS / up to 400 KBPS		Pound	11	\$16.90	60	11.00 monthly line rental from Sky	0	yes - bb & phone	12 months	no	2 GB	www.sky.com
	BksyB	Entrant		Sky Broadband Everyday	ADSL+2	up to 10 MBPS / up to 600 KBPS		Pound	10	\$15.36	30	11.25 line rental from BT	0	no	12 months	no	10 GB	www.sky.com
	BksyB	Entrant		Sky Broadband Everyday with Sky Talk	ADSL+2	up to 10 MBPS / up to 600 KBPS		Pound	5	\$7.68	30	11.00 monthly line rental from Sky	0	yes - bb & phone	12 months	no	10 GB	www.sky.com
	BksyB	Entrant		Sky Broadband Unlimited	ADSL+2	up to 20 MBPS / up to 1.3 MBPS		Pound	15	\$23.04	0	11.25 monthly line rental from BT	0	no	12 months	no	unlimited	www.sky.com
United Kingdom	BksyB	Entrant		Sky Broadband Unlimited with Sky Talk	ADSL+2	up to 20 MBPS / up to 1.3 MBPS		Pound	10	\$15.36	0	11.00 monthly line rental from Sky	0	yes - bb & phone	12 months	no	unlimited	www.sky.com
	BksyB	Entrant		Sky Broadband Connect	wireless (from BT, I think)	up to 8 MBPS / up to 448 KBPS	nationwide	Pound	17	\$26.11	30	11.25 monthly line rental from BT	0	no	12 months	no	subject to traffic management	www.sky.com
United Kingdom	TalkTalk	Entrant		Essentials	ADSL	up to 8 MBPS/	where available (80% of country)	Pound	6.49	\$9.97	29.99	11.25 line rental	0	yes - phone included via line rental	18 months	no	40 GB	www.talktalk.co.uk
United Kingdom	Virgin Media	Entrant	21%	Broadband L		up to 10 MBPS		Pound	5	\$7.68	30 standard or 15 quickstart self-install	11.00 Virgin line rental	0	yes - phone included	12 months	yes - 3 months, 14.00 thereafter (+11 line rental)	unlimited	www.virginmedia.com

Country	Broadband Service Provider	Competition Status	Share of Retail Fixed Broadband Access Market*	Broadband Service Offerings Name / Description	Type of Technology	Broadband Speed (download/ upload)	Availability of Broadband Service Offerings (Community or National Level)	Foreign Currency	Monthly Charge (in Foreign Currency)	Monthly Charge in USD, PPP (Purchasing Power Parity)	Installation (Connection) Charge	Additional Charges including Line Rental/ Leasing Charge	Modem Rental Charge	Broadband Bundled part of Double Play/ Triple Play ?	Length of Service Contract	Promot-ional Price	Usage limit	Broadband Provider's URL
	Virgin Media	Entrant		Broadband XL		up to 20 MBPS		Pound	10	\$15.36	30 standard or 15 quickstart self-install	11 Virgin line rental	0	yes - phone included	12 months	yes - 12.00 months, 12.00 thereafter (+11 line rental)	unlimited	www.virginmedia.com
	Virgin Media	Entrant		Broadband XXL		up to 50 MBPS		Pound	18	\$27.65	30 standard	20 activation fee, 11 Virgin line rental (monthly)	0	yes - phone included	12 months	yes - 28 months, 28 thereafter (+11 line rental)	unlimited	www.virginmedia.com
	Virgin Media	Entrant		TV and phone, purchased on-line, get free installation and														
*Includes DSL, Cable, Wireless Local Loop, and Public WiFi access. Data for EU countries as of July 2008. ** As of February 2008																		

Purchasing power parities (PPP) conversion factor, local currency unit to international dollar

Id	Country	2007
4	Afghanistan	19.049
8	Albania	55.368
12	Algeria	38.729
24	Angola	83.244
28	Antigua and Barbuda	
32	Argentina	1.538
51	Armenia	198.516
36	Australia	1.468
40	Austria	0.875
31	Azerbaijan	0.421
44	Bahamas	0.875
48	Bahrain	0.29
50	Bangladesh	27.971
52	Barbados	1.504
112	Belarus	830.285
56	Belgium	0.917
84	Belize	1.471
204	Benin	272.49
64	Bhutan	19.205
68	Bolivia	2.745
70	Bosnia and Herzegovina	0.875
72	Botswana	3.808
76	Brazil	1.598
96	Brunei Darussalam	
100	Bulgaria	0.785
854	Burkina Faso	233.116
108	Burundi	468.993
116	Cambodia	1686.366
120	Cameroon	294.262
124	Canada	1.231
132	Cape Verde	81.007
140	Central African Republic	311.853
148	Chad	303.409
152	Chile	393.847
156	China	4.091
344	China, Hong Kong Special Administra	7.094
446	China, Macao Special Administrative	6.724
170	Colombia	1234.298
174	Comoros	
178	Congo	375.613
188	Costa Rica	320.293
384	Cote d'Ivoire	320.387
191	Croatia	4.439
196	Cyprus	0.446
203	Czech Republic	14.951
180	Democratic Republic of the Congo	393.79
208	Denmark	8.849
262	Djibouti	

212	Dominica	1.781
214	Dominican Republic	21.935
218	Ecuador	0.497
818	Egypt	2.242
222	El Salvador	0.564
226	Equatorial Guinea	
232	Eritrea	
233	Estonia	9.655
231	Ethiopia	3.412
242	Fiji	1.566
246	Finland	1.057
250	France	0.934
266	Gabon	432.803
270	Gambia	
268	Georgia	0.882
276	Germany	0.889
288	Ghana	0.518
300	Greece	0.771
308	Grenada	2.08
320	Guatemala	4.846
324	Guinea	
624	Guinea-Bissau	285.593
328	Guyana	118.568
332	Haiti	22.382
340	Honduras	10.275
348	Hungary	143.308
352	Iceland	111.962
356	India	16.537
360	Indonesia	4753.084
364	Iran (Islamic Republic of)	3355.031
368	Iraq	
372	Ireland	1.074
376	Israel	3.959
380	Italy	0.896
388	Jamaica	48.472
392	Japan	134.343
400	Jordan	0.52
398	Kazakhstan	73.603
404	Kenya	38.672
296	Kiribati	
410	Korea, Republic of	872.006
414	Kuwait	0.286
417	Kyrgyzstan	14.238
418	Lao People's Democratic Republic	3934.089
428	Latvia	0.398
422	Lebanon	
426	Lesotho	3.698
430	Liberia	
434	Libyan Arab Jamahiriya	
440	Lithuania	1.776
442	Luxembourg	0.969
450	Madagascar	870.453

454 Malawi	65.965
458 Malaysia	2.105
462 Maldives	10.189
466 Mali	280.966
470 Malta	0.272
478 Mauritania	134.871
480 Mauritius	19.787
484 Mexico	7.848
583 Micronesia, Federated States of	
496 Mongolia	563.982
499 Montenegro	0.511
504 Morocco	5.471
508 Mozambique	13.412
104 Myanmar	406.421
516 Namibia	5.348
524 Nepal	28.447
528 Netherlands	0.892
554 New Zealand	1.585
558 Nicaragua	8.336
562 Niger	252.032
566 Nigeria	84.426
578 Norway	9.609
512 Oman	0.294
586 Pakistan	22.653
591 Panama	0.612
598 Papua New Guinea	1.641
600 Paraguay	2374.887
604 Peru	1.617
608 Philippines	24.873
616 Poland	2.078
620 Portugal	0.729
634 Qatar	4.362
498 Republic of Moldova	5.762
642 Romania	1.767
643 Russian Federation	15.079
646 Rwanda	264.84
659 Saint Kitts and Nevis	2.307
662 Saint Lucia	1.876
670 Saint Vincent and the Grenadines	1.851
882 Samoa	1.933
678 Sao Tome and Principe	
682 Saudi Arabia	2.911
686 Senegal	303.638
688 Serbia	37.38
690 Seychelles	4.448
694 Sierra Leone	1608.418
702 Singapore	1.425
703 Slovakia	18.493
705 Slovenia	0.672
90 Solomon Islands	4.421
710 South Africa	4.826
724 Spain	0.797

144 Sri Lanka	48.064
736 Sudan	1.346
740 Suriname	2.052
748 Swaziland	
752 Sweden	9.363
756 Switzerland	1.787
760 Syrian Arab Republic	26.544
762 Tajikistan	1.087
764 Thailand	17.598
807 The former Yugoslav Republic of Mac	22.848
626 Timor-Leste	0.53
768 Togo	274.38
776 Tonga	1.393
780 Trinidad and Tobago	5.079
788 Tunisia	0.707
792 Turkey	1.104
795 Turkmenistan	
800 Uganda	794.308
804 Ukraine	1.982
784 United Arab Emirates	
826 United Kingdom	0.651
834 United Republic of Tanzania	521.6
840 United States	1
858 Uruguay	16.588
860 Uzbekistan	
548 Vanuatu	69.307
862 Venezuela	1.59
704 Viet Nam	6520.248
887 Yemen	114.001
894 Zambia	3216.006

Source United Nations Statistics Millennium Indicators.

APPENDIX D: Demographics Dataset

Community	% Households with broadband	Population Total	Population density (avg population per square meter)	GDP total (US\$m), PPP (purchasing power parity)	GDP per cap, PPP (purchasing power parity)	Education (% of labor force with tertiary education)
ALA0 Australia	52	20406696	3	646550	31923	16
ALA1 New South Wales	53	6755953	8	216541	32381	<u>23</u>
ALA2 Victoria	51	5051670	22	162155	32658	34
ALA3 Queensland	54	4005768	2	115084	29418	33
ALA4 South Australia	42	1552766	2	44374	29022	28
ALA5 Western Australia	54	2017329	1	73933	37321	27
ALA6 Tasmania	39	486495	7	12704	26429	31
ALA7 Northern Territory	55	206584	0	8197	40802	25
ALA8 Australian Capital Territory	68	330131	141	13561	41921	31
AT0 Austria	54	8236226	99	280813	34413	
AT11 Burgenland (A)	57	278766	70	6548	51258	<u>18</u>
AT12 Niederösterreich	52	1575509	82	42970	27538	13
AT13 Wien	61	1638939	4060	77032	47456	17
AT21 Kärnten	47	560096	59	16254	29300	25
AT22 Steiermark	52	1199807	74	35299	29705	17
AT31 Oberösterreich	54	1399139	118	45405	32766	17
AT32 Salzburg	54	527184	75	19911	38134	16
AT33 Tirol	53	694609	56	24475	35577	18
AT34 Vorarlberg	53	362177	143	12920	36018	15
BE0 Belgium	60	10478618	346	335971	33400	<u>35</u>
BE1 Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest	56	1012777	6291	64474	66345	46
BE21 Prov. Antwerpen	64	6060881	454	192670	33130	35
BE3 Région Wallonne	52	3404960	203	78827	24127	33
BG0 Bulgaria	15	7739900	69.7	48167	6223	
BG1 Severna Bulgaria (SRE 2005)	12	4056987	59.4	21259	5240	No Data
BG11 Severozapaden (SRE 2005)	12	966326	50.7	4578	4737	No Data
BG12 Severen tsentralen (SRE 2005)	12	954078	63.7	4656	4880	No Data
BG13 Severoiztochen (SRE 2005)	12	999250	69	5402	5407	No Data
BG2 Yuzhna Bulgaria (SRE 2005)	17	3682913	86.3	26907	7306	No Data
BG21 Yugozapaden (SRE 2005)	25	2116835	104.2			No Data

Community	% Households with broadband	Population Total	Population density (avg population per square meter)	GDP total (US\$m), PPP (purchasing power parity)	GDP per cap, PPP (purchasing power parity)	Education (% of labor force with tertiary education)
BG22 Yuzhen tsentralen (SRE 2005)	11	1566078	70	7422	4739	No Data
BG23 Yugoiztochen (SRE 2005)	11	1137334	57.4	6623	5824	No Data
Canada	88	32299496	4	34,975	34,446	..
CA1 Newfoundland And Labrador	93	513962	1	24,860	27,588	36
CA2 Prince Edward Island	78	138176	24	26,493	29,670	48
CA3 Nova Scotia	88	936130	18	35,275	29,250	46
CA4 New Brunswick	82	751481	11	35,704	54,913	45
CA5 Quebec	84	7597768	6	32,676	40,270	48
CA6 Ontario	87	12558669	14	59,346	30,066	55
CA7 Manitoba	89	1174148	2	46,152	27,233	44
CA8 Saskatchewan	87	989957	2	23,705	26,910	37
CA9 Alberta	91	3277582	5	26,313	24,422	44
CA10 British Columbia	93	4257833	5	25,711	23,632	46
CA11 Yukon Territory		31121	0	24,462	27,757	..
CA12 Northwest Territories And Nunavut		72669	0	25,411	26,963	..
Chile	28	16438892	21.7		4618	
CI Tarapaca(a)	36	477864	8.1	No Data	4480	No Data
CII Antofagasta	44	550087	4.3	No Data	4887	No Data
CIII Atacama	22	273122	3.6	No Data	4185	No Data
CIV Coquimbo	18	679665	16.7	No Data	3869	No Data
CV Valparai(i)so	28	1685333	102.6	No Data	4295	No Data
CVI O'Higgins	14	850172	51.8	No Data	3856	No Data
CVII Maule	12	976920	32.2	No Data	3016	No Data
CVIII Bio-Bio	20	1983883	53.5	No Data	3668	No Data
CIX Araucania	21	938436	29.4	No Data	3179	No Data
CX Los Lagos	23	1170798	17.4	No Data	3505	No Data
CXI Aisen	2	100818	0.9	No Data	5245	No Data
CXII Magallanes y Anta(a)	21	156667	1.2	No Data	5417	No Data
CRMS Metropolitana de S	38	6595129	429	No Data	5775	No Data
Cyprus	33	757795	81.9	12470	16457	
CZ0 Czech Republic	36	10220432	132	207552	20755	14
CZ01 Praha	53	1170867	2414	49904	43374	28
CZ02 Strední Cechy	37	1143938	106	21486	19080	11
CZ03 Jihozápad	34	1175887	69	21807	18934	11
CZ04 Severozápad	26	1125877	133	18195	16501	8
CZ05 Severovýchod	37	1480627	121	25463	17566	11
CZ06 Jihovýchod	36	1639978	119	29578	18427	15
CZ07 Strední Morava	33	1228082	135	19466	16181	13

Community	% Households with broadband	Population Total	Population density (avg population per square meter)	GDP total (US\$m), PPP (purchasing power parity)	GDP per cap, PPP (purchasing power parity)	Education (% of labor force with tertiary education)
CZ08 Moravskoslezsko	33	1255178	236	21654	17679	12
DK0 Denmark	74	5404426	125	174582	32750	<u>32</u>
DK01 Hovedstaden	78	1824905	712	71872	39878	38
DK02 Sjælland	71	609144	84	14727	24467	24
DK03 Syddanmark	72	2970377	89	87983	29995	29
DK04 Midtjylland	76	No Data	No Data	No Data	No Data	No Data
DK05 Nordjylland	67	No Data	No Data	No Data	No Data	No Data
Estonia	54	1346097	31	14896	11066	
FI0 Finland+A75	66	5246096	17	159737	30897	<u>34</u>
FI1 Manner-Suomi	66	665626	10	15321	22928	29
FI13 Itä-Suomi	60	No Data	No Data	No Data	No Data	No Data
FI18 Etelä-Suomi	68	2588312	63	90730	35774	36
FI19 Länsi-Suomi	67	1332332	23	35998	27373	32
FI1A Pohjois-Suomi	64	633178	5	16694	26641	32
FI20 Åland	64	26648	17	994	37480	23
France	57	60825000	112	1830532	30725	<u>27</u>
FR1 Île de France	64	11445144	953	523138	45708	40
FR2 Bassin Parisien	52	10601707	73	274605	25902	21
FR3 Nord - Pas-de-Calais	52	4037562	325	94730	23462	24
FR4 Est	50	5292080	110	137217	25929	23
FR5 Ouest	54	8194093	95	216154	26705	25
FR6 Sud-Ouest	49	6559135	63	173562	26461	26
FR7 Centre-Est	52	7313840	105	211997	28986	26
FR8 Méditerranée	57	7552355	112	199128	26366	26
DE0 Germany	55	82469422	231	2510750	30775	<u>25</u>
DE1 Baden-Württemberg	56	10726560	300	365121	34465	26
DE2 Bayern	58	12456310	177	446412	36287	24
DE3 Berlin	58	3391509	3803	88355	26378	35
DE4 Brandenburg	38	2563594	87	53854	21270	29
DE5 Bremen		663340	1641	27544	42043	22
DE6 Hamburg	55	1739229	2303	92922	54096	26
DE7 Hessen	55	6095060	289	224718	37331	27
DE8 Mecklenburg-Vorpommern	43	1713460	74	35482	20968	24
DE9 Niedersachsen	58	7997428	168	214288	27130	20
DEA Nordrhein-Westfalen	60	18066729	530	545758	30586	22
DEB Rheinland-Pfalz	58	4059974	205	109558	27323	22
DEC Saarland		1053355	410	30703	29513	20
DED Sachsen	42	4285019	233	95392	22541	31
DEE Sachsen-Anhalt	40	2482077	121	54018	22036	24

Community	% Households with broadband	Population Total	Population density (avg population per square meter)	GDP total (US\$m), PPP (purchasing power parity)	GDP per cap, PPP (purchasing power parity)	Education (% of labor force with tertiary education)
DEF Schleswig-Holstein	55	2830855	180	76783	27464	21
DEG Thüringen	48	2344928	145	49841	21521	28
GR0 Greece	22	11103966	85	282839	25748	23
GR1 Voreia Ellada	16	3554803	63	70039	19954	22
GR2 Kentriki Ellada	13	2453970	46	50502	20842	17
GR3 Attiki	34	3987619	1048	138139	35084	29
GR4 Nisia Aigaiou, Kriti	18	1107574	63	24161	22092	18
Hong Kong, China SAR	70	7008900	6460	219,255	43960	0
HU0 Hungary	42	10087065	108	171,624	17014	20
HU1 Közép-Magyarország	51	2848321	412	79,090	27767	29
HU2 Dunántúl	40	3083839	84	46,118	14955	15
HU3 Alföld és Észak	37	4154906	84	46,415	11171	17
Iceland	83	299404	3			
IT0 Italy	31	58607043	199	1626326	28172	14
ITC1 Piemonte	29	4335953	174	131720	30841	13
ITC2 Valle d'Aosta/Vallée d'Aoste	25	123423	38	4025	33110	12
ITC3 Liguria	30	1601222	300	45631	28931	17
ITC4 Lombardia	36	9434147	414	340894	36684	14
ITD1 Provincia Autonoma Bolzano-Bozen	32	479859	65	17365	36739	11
ITD2 Provincia Autonoma Trento	35	500012	81	16244	32981	14
ITD3 Veneto	32	4719132	269	154480	33233	13
ITD4 Friuli-Venezia Giulia	33	1206498	160	37591	31632	15
ITD5 Emilia-Romagna	38	4169463	194	141380	34425	15
ITE1 Toscana	30	3609071	159	109147	30703	15
ITE2 Umbria	30	863408	105	22515	26473	15
ITE3 Marche	31	1523795	159	42134	28072	15
ITE4 Lazio	38	5287375	313	179137	34396	19
ITF1 Abruzzo	26	1302290	122	29354	22883	17
ITF2 Molise	18	321430	74	6611	20880	15
ITF3 Campania	27	5789958	432	102523	17976	14
ITF4 Puglia	24	4069843	212	73402	18310	12
ITF5 Basilicata	22	595316	61	11711	19971	13
ITF6 Calabria	19	2006842	136	35873	18147	15
ITG1 Sicilia	22	5015147	197	89511	18120	13

Community	% Households with broadband	Population Total	Population density (avg population per square meter)	GDP total (US\$m), PPP (purchasing power parity)	GDP per cap, PPP (purchasing power parity)	Education (% of labor force with tertiary education)
ITG2 Sardegna	27	1652865	69	35077	21545	11
KR0: Korea	73	48138077	483.99	1033424	22408	<u>32</u>
KR01: Capital region	75	23202135	1982.2	489717	21809	38
KR02: Gyeongnam region	69	7764293	629.62	178059	36214	35
KR03: Gyeonbuk region	68	5158051	259.08	107232	21809	34
KR04: Jeolla region	69	5112577	248.93	105058	21633	24
KR05: Chungcheong region	78	4870989	294.18	115354	24626	22
KR06: Gangwon region	68	1488365	89.81	27969	19735	28
KR07: Jeju	63	541667	293.38	10035	19277	31
JP0 Japan	58	127769000	347.11	3984241	31680	
JPA Hokkaido	46	5628000	72.13	152384	27509	No Data
JPB Tohoku	47	9635000	144.88	255000	26478	No Data
JPC Kanto	69	48368000	918.72	1686926	31574	No Data
JPD Hokuriku	57	5539000	169.27	170010	31529	No Data
JPE Toukai	64	11229000	618.41	391869	32678	No Data
JPF Kinki	65	20893000	796.47	622757	28649	No Data
JPG Chugoku	52	7676000	244.07	229706	29107	No Data
JPH Shikoku	47	4086000	219.11	104259	25854	No Data
JPI Kyushu	47	13353000	322.04	343490	25624	No Data
JPJ Okinawa	45	1362000	605.87	27840	20772	No Data
Latvia	40	2300512	36.9	20227	8792	
Lithuania	43	3414304	54.5	32682	9572	
Luxembourg (Grand-Duché)	61	457250	177	32557	71772	<u>30</u>
Malta	55	403507	1278.6	5707	14143	
NL0 Netherlands	74	16319868	483	566596	35342	<u>30</u>
NL1 Noord-Nederland	72	1701086	204	56131	33596	26
NL2 Oost-Nederland	74	3453595	355	100565	29647	27
NL3 West-Nederland	76	7617219	879	290674	38853	33
NL4 Zuid-Nederland	71	3547969	502	119227	34214	27
NO0 Norway	73	4623291	15	220101	48232	<u>33</u>
NO01 Oslo og Akershus	76	1031800	206	70858	69575	45
NO02 Hedmark og Oppland	76	371633	7	13653	37221	25
NO03 Sør-Østlandet	73	891458	26	34244	38918	28
NO04 Agder og Rogaland	66	660986	28	30540	46810	29
NO05 Vestlandet	69	802152	17	36935	46649	29
NO06 Trøndelag	78	402554	10	16380	41225	33
NO07 Nord-Norge	74	462710	4	17490	38296	29

Community	% Households with broadband	Population Total	Population density (avg population per square meter)	GDP total (US\$m), PPP (purchasing power parity)	GDP per cap, PPP (purchasing power parity)	Education (% of labor force with tertiary education)
PL0 Poland	38	38141271	122	517957	13571	69
PL1 Centralny	38	7734447	144	142923	18479	65
PL2 Poludniowy	38	7956467	289	106504	13386	72
PL3 Wschodni	33	6768410	90	65007	9604	67
PL4 Północno-Zachodni	42	6072555	91	82594	13601	72
PL5 Poludniowo-Zachodni	38	3940113	134	52332	13282	71
PL6 Północny	39	5693456	94	68597	12048	71
PT0 Portugal	39	10549424	115	210643	20054	13
PT11 Norte	36	3732551	175	59123	15909	10
PT15 Algarve	44	414158	83	8725	21159	14
PT16 Centro (PT)	31	2379529	84	40189	16963	9
PT17 Lisboa	50	2769897	944	77983	28276	22
PT18 Alentejo	34	766825	24	14206	18607	10
PT30 Região Autónoma da Madeira (PT)	41	244742	296	6149	25235	11
PT20 Região Autónoma dos Açores (PT)	39	No Data	No Data	No Data	No Data	No Data
RO0 Romania	13	21634371	94.1	211269	9765	
RO1 Macroregiunea unu	14	5269828	78.2	49369	9368	No Data
RO11 Nord-Vest	13	2735929	81.3	25098	9173	No Data
RO12 Centru	14	2533900	75	24271	9579	No Data
RO2 Macroregiunea doi	13	6582021	97.8	48305	7339	No Data
RO21 Nord-Est	9	3735229	103.4	24306	6507	No Data
RO22 Sud-Est	17	2846792	91.3	23999	8430	No Data
RO3 Macroregiunea trei	16	5542528	157.5	74612	13462	No Data
RO31 Sud - Muntenia	12	3329794	99.6	27083	8133	No Data
RO32 Bucuresti - Ilfov	21	2212735	1259.4	47529	21480	No Data
RO4 Macroregiunea patru	10	4239994	70.6	38983	9194	No Data
RO41 Sud-Vest Oltenia	11	2307868	81	17688	7664	No Data
RO42 Vest	10	1932126	61.2	21295	11022	No Data
Singapore	86	4839400	6814	127666	23288	
SK0 Slovakia	35	5387001	110	86375	16138	15
SK01 Bratislavský kraj	39	602416	293	23589	39410	29
SK02 Západné Slovensko	35	1863498	124	28152	15204	12

Community	% Households with broadband	Population Total	Population density (avg population per square meter)	GDP total (US\$m), PPP (purchasing power parity)	GDP per cap, PPP (purchasing power parity)	Education (% of labor force with tertiary education)
SK03 Stredné Slovensko	37	1352190	83	16712	12439	15
SK04 Východné Slovensko	33	1568898	100	17922	11497	11
Slovenia	50	2000474	99.3	31643	15818	
ES0 Spain	45	43733217	86.43	1183478	27280	31
ES11 Galicia	32	2717865	91.9	60524	22470	31
ES12 Principado de Asturias	48	1058317	99.8	25280	24071	37
ES13 Cantabria	49	557169	104.71	14800	26922	35
ES21 Pais Vasco	44	2113130	292.11	73035	34923	47
ES22 Comunidad Foral de Navarra	44	588158	56.6	20003	34501	40
ES23 La Rioja	45	300422	59.55	8669	29368	32
ES24 Aragón	45	1258543	26.37	36286	29237	34
ES30 Comunidad de Madrid	58	5933470	739.1	208499	35747	38
ES41 Castilla y León	35	2476605	26.28	63496	25881	32
ES42 Castilla-la Mancha	36	1891896	23.81	40630	21848	23
ES43 Extremadura	35	1071293	25.73	19743	18599	24
ES51 Cataluña	53	6930046	215.8	221761	32587	32
ES52 Comunidad Valenciana	42	4636546	199.38	114983	25310	28
ES53 Illes Balears	50	984917	197.3	29269	30362	22
ES61 Andalucia	39	7790300	88.93	164625	21463	26
ES62 Región de Murcia	36	1334330	117.95	30597	23407	25
ES63 Ciudad Autónoma de Ceuta (ES)	46	71461	3761.11	1768	24970	25
ES64 Ciudad Autónoma de Melilla (ES)	46	66886	5145.04	1613	24364	33
ES70 Canarias (ES)	45	1951866	262.1	47897	25004	27
SE0 Sweden	71	9047752	22	295876	32866	29
SE1 Östra Sverige	69	3397736	75	128550	37384	33
SE2 Södra Sverige	74	2115604	45	60834	28755	27
SE3 Norra Sverige	67	1706231	6	49542	29036	25
TW0 Taiwan	66	22958360	4881	641194	28023	
TW1 North	73	10107903	4919	327435	32394	No Data
TW2 Central	59	5740700	6219	134520	23433	No Data
TW3 South	61		4853	169874	26373	No Data
TW4 East	49	94325	2731	13500	23399	No Data

Community	% Households with broadband	Population Total	Population density (avg population per square meter)	GDP total (US\$m), PPP (purchasing power parity)	GDP per cap, PPP (purchasing power parity)	Education (% of labor force with tertiary education)
UK0 United Kingdom	62	60227500	248	1901710	33110	<u>30</u>
UKC North East (ENGLAND)	47	2550200	297	65102	26769	25
UKD North West (ENGLAND)	52	6837900	485	188598	28922	28
UKE Yorkshire and The Humber	62	5105500	331	139035	28556	25
UKF East Midlands (ENGLAND)	66	4327600	277	124968	30280	26
UKG West Midlands (ENGLAND)	60	5348800	412	150095	29425	26
UKH Eastern	68	5560900	291	167281	31544	28
UKI London	65	7453500	4741	365371	51402	39
UKJ South East	71	8183100	429	281676	36095	32
UKK South West (ENGLAND)	64	5084800	213	150326	31001	29
UKL Wales	59	2954800	143	72093	25585	28
UKM Scotland	58	5095100	65	152862	31460	34
UKN Northern Ireland	42	1725300	122	44302	26926	27

Data Sources:

	% households with broadband	Population Total	Population density	GDP total	GDP per cap, PPP	Education
Australia	2008, Australian Bureau of Statistics	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Austria	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Belgium	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Bulgaria	2007, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	
Canada	2007, Statistics Canada	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Chile	2007, Subtel; INE, 2006	2006, INE	2006, INE		INE, World Bank 2006	
Cyprus	2008, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	
Czech	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Denmark	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Estonia	2008, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	
Finland	2008, Eurostat; for Aland, 2007, Eurostat	2005, OECD, except Ita-Suomi	2005, OECD, except Ita-Suomi	2005, OECD, except Ita-Suomi	2005, OECD, except Ita-Suomi	2005, OECD, except Ita-Suomi
France	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Germany	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Greece	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Hong Kong, China SAR	2008, Census and Statistics Dept	2008, Census and Statistics Dept	2008, Census and Statistics Dept	2008, World Bank GNI PPP	2008, World Bank GNI per cap PPP	2008, Census and Statistics Dept
Hungary	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Iceland	2008, Eurostat	2005, OECD	2005, Eurostat			
Italy	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Japan	2008, Broadband, Ministry of Internal Affairs and Communication. Households, based on 2005 census, Japan Statistics Department	2005, OECD	2005, OECD	2005, OECD	2005, OECD	

	% households with broadband	Population Total	Population density	GDP total	GDP per cap, PPP	Education
Korea	2008 Korea Telecom Operators Assn; 2008 National Census Agency	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Latvia	2008, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	
Lithuania	2008, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	
Luxembourg	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Malta	2008, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	
Netherlands	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Norway	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Poland	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Portugal	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Romania	2008, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	
Singapore	2008, IDA	2008, Singstat	2008, Singstat	2008, Singstat	2008, Singstat	
Slovakia	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Slovenia	2008, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	2005, Eurostat	
Spain	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Sweden	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD
Taiwan	2008, TWINNIC	2007, Ministry of Interior	2007, Ministry of Interior	2007, Urban and Regional Development Statistics, 2007. IMF	2007, Urban and Regional Development Statistics, 2007. IMF.	
United Kingdom	2008, Eurostat	2005, OECD	2005, OECD	2005, OECD	2005, OECD	2005, OECD

APPENDIX E: Market and Regulatory Background

This Appendix contains regulatory, market, and other information for 37 countries. The information and data contained in this Appendix are taken from a variety of sources. Descriptions of the regulatory structure and the state of competition of a particular country are from the web sites of that country's regulator or ministry and from subscription-based services, such as IHS Global Insight, unless otherwise noted. Topography information and the number of radio and television broadcast stations come from the CIA Factbook, unless otherwise noted.¹ Data contained in the tables in this Appendix (*i.e.*, percentage of access to broadband per 100 people, total number of broadband subscribers, and percentages of subscribers to broadband per 100 people (by total and by technology type)) are drawn from the OECD,² unless otherwise noted.

1. Australia

Regulation: The Department of Broadband, Communications and the Digital Economy (DBCDE) is responsible for formulating policy in the telecommunications sector.³ The Australian Communications and Media Authority (ACMA) regulates telecommunications and online content. The ACMA's mandate includes "promoting self-regulation and competition while protecting consumers and other users; fostering an environment in which media respect community standards and respond to audience and user needs; managing access to spectrum; and representing Australia's communications interests internationally."⁴ The Australian Competition and Consumer Commission (ACCC) enforces the economic and competition regulations for telecommunications and other industries. It also regulates interconnection and access to incumbent Telstra's network and sets competitive safeguards.⁵

The ACCC has mandated loop unbundling for Telstra, the incumbent telecommunications company, since 1999. Operators can make their own access agreements with Telstra, though the ACCC can intervene if there are disputes over pricing arrangements. Approximately 10% of Telstra's central offices are capable of supporting loop unbundling for competitors.⁶ Approximately 2221 of Telstra's 5000 exchanges had at least one facilities-based competitor, and 245 exchanges had five or more facilities-based competitors.

In April 2009, Australia announced that it would create a new company (majority owned by the government), to build a national, wholesale only, fiber-to-the-premises (FTTP) broadband network with a goal of providing, by 2018, broadband services to 90% of all Australian homes, schools and workplaces at speeds of 100 Mbps.⁷ The government plans to initially invest AUD4.7 billion (US\$4.2 billion) and up to AUD43 billion (US\$39 billion) total in the wholesale, open access network through the government's Building Australia Fund.⁸ The 10% of the population not reached by the extensive fiber network will be served by other platforms such as terrestrial wireless or satellite, with speeds at least 12 Mbps. The government plans to privatize the network five years after its construction.

¹ See generally, CIA Factbook, available at <https://www.cia.gov/library/publications/the-world-factbook/>.

² See OECD Broadband Portal, Table 2a, (2008) (sources: OECD, ICT database and Eurostat, Community Survey on ICT usage in enterprises, May 2009).

³ See DBCDE, available at <http://www.dbcde.gov.au/>.

⁴ See ACMA, available at <http://www.acma.gov.au/>.

⁵ See ACCC, available at <http://www.accc.gov.au/>.

⁶ See OECD Communications Outlook 2009, at 34 (2009).

⁷ See http://www.budget.gov.au/2009-10/content/bp1/html/bp1_bst1-08.htm.

⁸ See DBCDE, "National Broadband Network: 21st Century Broadband" available at http://www.dbcde.gov.au/broadband/national_broadband_network.

Competition: The four largest ISPs in Australia are Telstra, Optus, iiNet, and Primus Telecommunications.⁹ At the end of June 2009, 57% of broadband connections were digital subscriber line (DSL) technology.¹⁰ This percentage share has decreased since December 2008 when DSL represented 63% of broadband connections. Mobile wireless connections (27%) were the second largest category, followed by the combined category of cable and fiber (13%).¹¹

Other Media: AM (262); FM (345); TV (104).

Topography: Australia occupies an area slightly smaller than the contiguous 48 states of the United States. Australia's population is concentrated along the eastern and southeastern coasts. The terrain is mostly low plateau with deserts and fertile plain in the southeast.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
62.0 ¹²	5,356,000	24.9	0.0	4.3	19.4	1.2

2. Austria

Regulation: The Austrian Regulatory Authority for Broadcasting and Telecommunications (RTR) and the Telecom Control Commission (TKK) share regulatory oversight of the telecommunications market in Austria.¹³ The TKK makes determinations of significant market power and imposes *ex ante* remedies as appropriate. The RTR, which is divided into broadcasting and telecommunications sections, provides technical expertise to and handles all administrative matters on behalf of the TKK. As required under European Union (EU) law, Austria incorporated the 2002 European regulatory framework for communications into its national 2003 Telecommunications Act (TKG 2003).¹⁴

The use of unbundled local loops was mandated under the previous Austrian Telecommunications Act, passed in January 1998. The incumbent, Telekom Austria, is subject to loop unbundling.¹⁵

In 2008, the RTR released its ICT Factbook which outlines areas in which Austria faces gaps in Internet usage based on education and age, and highlights areas in which ICT could be used more broadly, such as health care, culture, security, e-government, research and development and green IT.¹⁶

⁹ See Senator Stephen Conroy, Minister for Broadband, Communications and the Digital Economy, Speech, "Measures to Improve Safety of the Internet for Families" available at <http://www.minister.dbcde.gov.au/media/speeches/2009/075>.

¹⁰ In Appendix C, we include price information for Internode, a competitive entrant offering broadband services via DSL. See Internode website, available at <http://www.internode.on.net>.

¹¹ Australian Bureau of Statistics, "8153.0 - Internet Activity, Australia" (Jun 2009), available at <http://abs.gov.au/ausstats/abs@.nsf/mf/8153.0/>.

¹² Australian Bureau of Statistics, "Household Use of Information Technology" 2008-09 (Feb. 2010) available at [http://www.ausstats.abs.gov.au/Ausstats/subscriber.nsf/0/FC0AC596D2B82A06CA25768D0021C672/\\$File/81460d003_200809.xls#TopOfTable_Table_2](http://www.ausstats.abs.gov.au/Ausstats/subscriber.nsf/0/FC0AC596D2B82A06CA25768D0021C672/$File/81460d003_200809.xls#TopOfTable_Table_2).

¹³ See RTR, available at <http://www.rtr.at/en/rtr/RTRGmbH>; TKK, at <http://www.rtr.at/en/rtr/OrganeTKK>.

¹⁴ See RTR, Legal Framework, available at <http://www.rtr.at/en/tk/Recht>.

¹⁵ CESInfo, DICE Report, available at http://www.cesifo-group.de/portal/page/portal/DICE_Content/INFRASTRUCTURE/COMMUNICATION_NETWORKS/Fixed-line%20Access%20Regulation/Impl-LLU-oecd.pdf.

¹⁶ See <http://www.rtr.at/en/komp/SchriftenreiheNr52008/Volume5-2008.pdf>.

Competition: Telekom Austria, which operates under the eTel brand, is the largest player in Austrian broadband market. There is significant inter-modal competition in the Austrian broadband market. Mobile broadband providers lead, serving 38% of the market, followed by DSL providers (31%), and cable (19%).¹⁷ Competitors include TS-Online, UPC (Liberty Global), Chello (UPC Telekabel), Tele2, UTA, and PCCW (wireless).

Other Media: AM (2); FM (65); TV (10).

Topography: Austria occupies an area slightly smaller than Maine. Austria's population is concentrated on eastern lowlands because of steep slopes, poor soils and low temperatures. The terrain in the west and south is mostly mountains (Alps) and mostly flat or gently sloping along the eastern and northern margins.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
54.5	1,821,000	21.8	0.1	6.8	14.5	0.5

3. Belgium

Regulation: National telecommunications goals and policy objectives are set by the Ministère des Communications et de l'Infrastructure.¹⁸ The independent regulator is the Institut Belge des Services Postaux et des Télécommunications (IBPT).¹⁹

Belgium first mandated local-loop unbundling in October 2000,²⁰ but alternative operators have historically used bitstream access to provision DSL services. The guidelines for bitstream access are outlined in the Belgacom Reference Offer Bitstream Access (BROBA) decision and those for local-loop unbundling are set forth under the Belgacom Reference Unbundled Offer (BRUO) decision.

Belgium's broadband strategy, presented in mid-2009, includes plans to improve broadband through mapping, access regulations, tax relief, relief from right of way charges, sharing of inside wiring and public-private partnerships.²¹ One of the primary goals of the strategy is to stimulate fiber and cable deployment. The strategy includes sections on broadband applications such as intelligent transport systems, smart grids, and e-health.

Competition: Belgacom is the incumbent wireline operator. Competitors include Versatel (KPN) (unbundled loops) and Telenet (cable system). Local-loop unbundling is used primarily for the provision of differentiated DSL services. By the end of 2007, there were 38,449 fully unbundled lines in Belgium

¹⁷ See RTR, Telecom Monitor, Appendix available at http://www.rtr.at/en/komp/TKMonitor_4_2009/TM4-2009e.pdf.

¹⁸ See Ministère des Communications et de l'Infrastructure, available at <http://vici.fgov.be/>.

¹⁹ See IBPT, available at <http://www.ibpt.be/>.

²⁰ OECD Paper at 16-17.

²¹ See Quickonomie.be, economy and reform, available at http://www.apritel.org/fotos/editor2/Minister_van_Quickenborne.pdf.

with another 19,060 shared access lines. Together, those lines accounted for about 3.5% of all DSL lines in Belgium and 2% of all broadband lines in the country.²² Resellers include Tele2 (KPN).

Other Media: AM (7); FM (79); TV (25).

Topography: Belgium occupies an area about the size of Maryland. Belgium's terrain consists of flat coastal plains in the northwest, central rolling hills, and the rugged mountains of Ardennes Forest in the southeast.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
60.3	3,041,311	38.4	0.0	11.8	16.3	0.2

4. Bulgaria

Regulation: The Ministry of Transport, Information Technology and Communications (MTITC) is responsible for formulating state policy for telecommunications.²³ The Communications Regulation Commission (CRC), an independent agency established in 2002 in accordance with EU telecommunications requirements, is responsible for approving licenses and frequency, technical, market, and legal regulation. The CRC promotes market competition, enforces license conditions, and promulgates appropriate consumer protection measures. Bulgaria adopted its Electronic Communications Act at the beginning of 2007, following its accession to the EU.²⁴

Bulgaria's National Broadband Strategy for 2010 was approved by its Cabinet in November 2009 and will fund high-speed Internet access in 26 smaller cities (with about 20,000 residents each). Fifty percent of the strategy's projects will be funded through the government's Operational Program for Regional Development; private-sector partners will fund the other 50%. Initially, priority will be given to business investment projects in smaller towns and villages.²⁵ The broadband strategy encourages the use of online administration, medical, legal and educational services.

Competition: The Bulgarian Telecommunications Company (BTC, operating as Vivacom) is the incumbent wireline carrier and the leading provider in the fixed broadband market. Competitors include CableTel/EuroCom (cable system);²⁶ and alternative infrastructure providers Orbitel/SpectrumNet, Net Is Sat, Net1, Nexcom, and Vestitel.²⁷ Nexcom has provided WiMAX-based broadband since January 2007,

²² BIPT, "A Comparative Study by Analysis of Retail Prices for Broadband Internet Connections in Belgium and six other European countries," (March 2007) available at http://bipt.be/en/406/ShowDoc/2265/Communications/A_comparative_study_by_Analysis_of_retail_prices_f.aspx.

²³ See MTICT, available at <http://www.mtict.government.bg/index.php>.

²⁴ See CRC, available at <http://www.crc.bg/index.php?lang=en>;

²⁵ See The Sofia Echo, available at http://sofiaecho.com/2009/11/25/820727_bulgarias-national-broadband-strategy-foresees-government-funded-Internet-in-smaller-cities; MTITC, available at <http://mtict.government.bg/page.php?category=92&id=3562&seek=broadband>.

²⁶ In Appendix C, we include price information on CableTel and Eurocom separately because we conducted our research prior to the merger of the two companies. See The Sofia Echo, "Sweden's EQT Buys Bulgaria's CableTel, Eurocom in 200M Euro Deal," available at http://sofiaecho.com/2009/10/30/807289_swedens-eqt-buys-bulgarias-cabletel-eurocom-in-200m-euro-deal.

²⁷ In Appendix C, we include price information for Powernet, a competitive entrant offering broadband services via fiber optic and wireless. See Powernet website, available at <http://www.powernet.bg>.

and currently provides coverage to nearly half of Bulgaria's population.²⁸ Vestitel, owned by national gas company Overgas, has deployed fiber-to-the-home (FTTH) infrastructure along its parent company's gas distribution network in the largest cities, and it plans to begin rolling out service in 2011.²⁹

Other Media: AM (31); FM (63); TV (39).

Topography: Bulgaria occupies an area slightly larger than Tennessee. Bulgaria's terrain is mostly made up of mountains with lowlands in the north and southeast.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
Data N/A	853, 100 ³⁰	27.97 ³¹	Data N/A	Data N/A	Data N/A	Data N/A

5. Canada

Regulation: Industry Canada (IC), headed by the Minister of Industry, sets telecommunications and radio communications policy. The IC is also responsible for international submarine cable licensing as well as spectrum policy and management.³² The Canadian Radio-Television and Telecommunications Commission (CRTC) is an independent entity that regulates and supervises the Canadian broadcasting and telecommunications systems. CRTC operates under the provisions of the Telecommunications Act (1991) and the Bell Canada Act (1987), and its mandate is to ensure that the telecommunications systems serve the Canadian public. It, however, does not regulate cell phone company rates, quality of service and business practices.³³ The Competition Bureau, an independent law enforcement agency, is responsible for promoting and maintaining fair competition to maintain competitive prices, product choice and quality of service.³⁴

Incumbent operators are required to obtain approval from the regulator for their wholesale and unbundled loop rates. Both the cable and DSL segments are legally open to third-party access. In 2006, the CRTC approved proposed rates for third-party access to leading cable TV systems networks.

Canada's 2009 budget included stimulus funds to improve broadband services in rural Canada. Specifically, the budget "provide[d] \$225 million over three years to Industry Canada to develop and implement a strategy on extending broadband coverage to all currently unserved communities beginning in 2009-10."³⁵ As a result, a program entitled "Broadband Canada: Connecting Rural Canadians" was launched. Industry Canada undertook an extensive mapping exercise in order to understand the extent to which Canadians remain unserved or underserved. Based on the mapping data, geographic service areas

²⁸ See WiMAX by Nexcom, available at <http://wimax.nexcom.bg/en/thetechnology/description/>.

²⁹ See TMCnet Bloggers, available at <http://blog.tmcnet.com/telecom-crm/2009/03/27/moveros-mobility-study-verimatrix-in-slovenia-vestitel-in-bulgaria-sun.asp>.

³⁰ See ITU, ICT Statistics Database (2008), available at <http://www.itu.int/ITU-D/icteye/Indicators/Indicators.aspx> (ITU Statistics Database).

³¹ *Id.*

³² See Industry Canada, available at <http://www.ic.gc.ca/>.

³³ See CRTC, available at <http://www.crtc.gc.ca/eng/home-accueil.htm>.

³⁴ See Competition Bureau, available at <http://competitionbureau.gc.ca/eic/site/cb-bc.nsf/eng/home>.

³⁵ See <http://www.budget.gc.ca/2009/plan/bpc3d-eng.asp>.

(GSAs) were defined, and on September 1, 2009, a competitive call for applications was launched to fund projects in the GSAs. The broadband program was supposed to fund up to 50% of eligible project costs. Successful applicants were scheduled to be named in January 2010, but due to the large number applications, the announcement will be made in the first quarter of 2010.³⁶

Competition: Competition in broadband is predominantly facilities-based. The Internet access industry consists of approximately 500 companies. Of these, 9% of those companies are incumbents that own the vast majority of the copper twisted pair access links to homes and businesses. Eighteen percent (18%) are cable companies; 19% are utilities, municipalities, and other providers that mainly provide service utilizing dial-up, DSL, fiber, satellite or fixed wireless facilities; and the remaining 54% are resellers that mainly provide dial-up Internet access service. The five largest Internet access service providers and their affiliates control 77% of the retail Internet market. The incumbent wireline operators (excluding their out-of-territory operations) and cable operators hold, respectively, 42% and 46% of the Internet access market. Providers include cable companies such as Rogers, Cogeco, Shaw, and Vidéotron; telecommunications carriers such as Bell Canada, Bell Alliant, Telus, MTS Allstream, and Sasktel; and resellers including AOL Canada, 3Web/CIA.com, 295.ca, and Inter.net Canada (Uniserve). Alternate providers, such as Inukshuk Wireless (joint venture of Bell Canada and Rogers), mainly serve the business segment, where cable providers have few clients.

Other Media: AM (242); FM (582); TV (148).

Topography: Canada occupies an area somewhat larger than the contiguous 48 states of the United States. Approximately 90% of the population is concentrated within 100 miles of the U.S. border. The terrain is mostly plains with mountains in the west and lowlands in the southeast.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
64.2 ³⁷	9,916,217	29.7	0.0	15.2	13.2	1.3

6. Chile

Regulation: Chile does not have an independent telecom regulator. The Undersecretariat of Telecommunications, the Subsecretaria de Telecomunicaciones (SUBTEL), a sub-cabinet-level arm of the Ministry of Transportation and Telecommunications (MTT), acts as both policymaker and telecom regulator.³⁸

Chile was among the first countries to liberalize its telecommunications market, beginning in the mid-1970s, under the Pinochet military government. Chile has an open telecommunications market, with competition in local, domestic long distance and international calling. Under SUBTEL regulations, all Internet Service Providers (ISPs) must interconnect domestically and must provide consistent consumer information on issues such as latency rates and packet size for quality of service purposes. In June 2009, Chile launched a new online portal that allows consumers to compare offers of all Internet providers.³⁹

³⁶ Broadband Canada: Connecting Rural Canadians, Call for Applications for Program Funding, available at http://www.ic.gc.ca/eic/site/719.nsf/eng/h_00000.html.

³⁷ This percentage is from 2007. In even numbered years, Canada includes only its 10 provinces in its statistics.

³⁸ See SUBTEL, available at http://www.subtel.cl/prontus_subtel/site/edic/base/port/inicio.html.

³⁹ See <http://www.gobiernodechile.cl/viewNoticia.aspx?idArticulo=27853>.

In November 2007, Chile released its 2007-2012 Strategy for Digital Development.⁴⁰ The strategy's goals include doubling broadband connections to reach 2 million by 2010, increasing small and mid-range enterprise competition, e-health, and e-education. In October 2008, Chile announced a subsidy plan to provide connectivity to more than three million people in 1,474 rural communities. The subsidy plan is estimated to cost US\$100 million, 70% of which will be provided by the government through Chile's Telecommunications Development Fund.

Competition: Competitors include Telefónica Chile (incumbent); VTR (cable); Telefónica del Sur; GTD Manquehue; Entel; and CMET Telecomunicaciones. Telefónica Chile holds 44.9% of the broadband market as of the end of October 2009, followed by VTR (39.4%), Telefónica del Sur (5.1%), and Telmex (5.4%), which launched its own WiMAX network in 2007.

Telmex Chile and VTR hold wireless local loop licenses that allow them to offer wireless broadband services to the public based on WiMAX technology, particularly in remote, underserved areas. Telmex launched services in the capital city of Santiago and 14 other urban centers in March 2007. In 2008, VTR began deploying a WiMAX network.

Other Media: AM (180); FM (64); TV (63).

Topography: Chile occupies an area slightly smaller than twice the size of Montana. Chile's terrain consists of low coastal mountains, a fertile central valley, and rugged Andes in the east.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
Data N/A	1,426,400 ⁴¹	8.49 ⁴²	Data N/A	Data N/A	Data N/A	Data N/A

7. Cyprus

Regulation: The Ministry of Communications and Works (MCW) oversees the telecommunications, postal services, electrical and mechanical services, road transport, public works, civil aviation and merchant shipping sectors of the economy.⁴³ The Office of the Commissioner of Electronic Communications & Postal Regulation (OCECPR), established in 2002, is responsible for the introduction of effective competition in the provision of networks and services, and the protection of consumers, especially in issues relevant to the price and the quality of the provided services.⁴⁴

Cyprus' broadband strategy goal is to achieve 100% availability of broadband services. It focuses on providing terrestrial wireless or satellite connections to each of the 151 rural communities currently without broadband access.⁴⁵

⁴⁰ See Estrategia Digital Chile 2007-2012, available at <http://www.agendadigital.cl>. An English-language version is available at <http://www.estrategiadigital.gob.cl/node/302>.

⁴¹ ITU Statistics Database.

⁴² *Id.*

⁴³ See MCW, available at http://www.mcw.gov.cy/mcw/mcw.nsf/dmlindex_en/dmlindex_en.

⁴⁴ See OCECPR, available at http://www.ocecpr.org.cy/nqcontent.cfm?a_id=767&tt=ocecpr&lang=gr; see also Cyprus Government, Office of the Commissioner of Electronic Communications and Postal Regulation, available at <http://www.cyprus.gov.cy/portal/portal.nsf/All/6D2934F2A71AAF04C225702A0029F464>.

⁴⁵ MCW, available at <http://www.cto-ict.org/index.php?dir=03&sd=50&cid=20011>.

Competition: Competitors include the Cyprus Telecommunications Authority (CYTA), a quasi-governmental agency established by Cyprus law; PrimeTel, the largest private telecommunication company in Cyprus; and cable operator, Cablenet.⁴⁶

Other Media: AM (5); FM (76); TV (8).

Topography: Cyprus is about 0.6 times the size of Connecticut. Cyprus' terrain consists of a central plain with mountains to the north and the south, and scattered but significant plains along the southern coast.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
Data N/A	104,000 ⁴⁷	12.06 ⁴⁸	Data N/A	Data N/A	17.7 ⁴⁹	Data N/A

8. Czech Republic

Regulation: The Czech Telecommunication Office (Český telekomunikační úřad or ČTÚ)⁵⁰ is the country's independent regulatory authority, though it is organizationally situated in the Ministry of Informatics (MICR).⁵¹ The Telecoms Act of 2000 governs the telecommunications sector, and the Czech market was opened to competition in 2001.

Local-loop liberalization began in 2003; at that time the Czech Republic was required to harmonize its telecommunications regime with the 2002 European Union telecommunications directives. Ceiling prices for unbundled local loops were modified by a 2008 decision. These ceiling prices are still in effect, and 95% of local exchanges may offer fully unbundled lines.⁵² In 2009, Telefónica O2, the incumbent, introduced a new model for wholesale DSL. Under this model, it would wholesale DSL access in a way that would allow alternative ISPs and their end users to opt out of Telefónica O2's fixed-line telephony offering while subscribing to broadband Internet.

The Czech Government adopted its "National Broadband Access Policy" in January 2005. The policy is based on the OECD Council's recommendations on promoting broadband development. The policy's main goal is to achieve a broadband adoption rate of approximately 50% by 2010.⁵³

⁴⁶ See CYTA, available at http://www.cyta.com.cy/company_history_en.htm and <http://www.cto-ict.org/index.php?dir=03&sd=50&cid=20011>; PrimeTel, available at <http://www.primetel.com/Main/main.aspx?id=242>; Cablenet, available at <http://www.cablenet.com.cy/en/>.

⁴⁷ ITU Statistics Database.

⁴⁸ *Id.*

⁴⁹ European Union, "Cyprus", available at http://ec.europa.eu/information_society/policy/ecomm/doc/implementation_enforcement/annualreports/14threport/cy.pdf.

⁵⁰ See ČTÚ, available at <http://www.ctupraha.cz/>.

⁵¹ See MICR, available at <http://www.micr.cz/>.

⁵² https://cesifo-group.de/portal/page/portal/DICE_Content/INFRASTRUCTURE/COMMUNICATION_NETWORKS/Fixed-line_percent20Access_percent20Regulation/dev-loc-loop-unbund_0.pdf.

⁵³ See http://web.mvcr.cz/archiv2008/micr/scripts/detail.php_id_2185.html.

Competition: In the Czech Republic 17.39 out of 100 residents subscribe to the Internet and 17.05 of these subscribers get broadband.⁵⁴ The incumbent operator in the Czech Republic is Telefónica O2.⁵⁵ Its competitors include UPC (cable system operator); Dial Telecom; T-Mobile (loop unbundling, resale and alternate facilities); Radiokomunikace (alternate facilities and fixed wireless); and fixed wireless operators, Broadnet, a subsidiary of Vodafone, and U:fon.

Other Media: AM (31); FM (304); TV (71).

Topography: The Czech Republic occupies an area slightly smaller than South Carolina. The terrain in Bohemia in the west consists of rolling plains, hills, and plateaus surrounded by low mountains; Moravia in the east consists of very hilly country.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
36.4	1,891,958	18.1	0.9	3.9	7.0	6.3

9. Denmark

Regulation: The National IT and Telecoms Agency (NITA) is Denmark's independent regulator.⁵⁶ NITA operates under the auspices of the Ministry of Science, Technology and Innovation (MSRI).⁵⁷ However, Danish law ensures that the MSRI cannot intervene in the NITA's regulatory functions.

The incumbent, Telia Denmark, is obligated to offer unbundled loops, sub-loops, and bitstream access.⁵⁸ In 2009, the EC approved the Danish regulator's rules forcing TDC, a cable provider that controls large parts of the cable network, to open up its cable broadband network to competitors.⁵⁹

The existing strategy for the rollout and use of broadband in Denmark is based on the 2001 broadband plan "From Hardware to Content." According to the strategic goals outlined in the plan, all Danish citizens and business will have access to broadband of at least 512 kbps by the end of 2010. Denmark is pursuing a market-based approach, ensuring that regulations are technology-neutral and using e-government services as "drivers" to ensure high demand for broadband.⁶⁰

Competition: The following companies compete in the Danish broadband market: TDC; Cybercity; cable TV provider, Telia Stofa; Fixnet Nordic; Telenor; Telia Denmark; and FTTH providers, Dansk Bredband and Energi Midt. Danske Telecom and ELRO provide WiMAX services. Alternative

⁵⁴ "Statistics: Internet," International Telecommunications Union, available at http://www.itu.int/ITU-D/icteye/Reporting/ShowReportFrame.aspx?ReportName=/WTI/InformationTechnologyPublic&RP_intYear=2008&RP_intLanguageID=1.

⁵⁵ See "Czech Republic Telecoms: Sub-sector Update," Telecoms and Technology Forecast (Economic Intelligence Unit) (Feb. 6, 2010).

⁵⁶ See NITA, available at <http://en.itst.dk/>.

⁵⁷ See MSTI, available at <http://en.vtu.dk/>.

⁵⁸ *Id.*

⁵⁹ See NITA, available at <http://en.itst.dk/news/tdds-cable-tv-network-opened-up-to-competitors>.

⁶⁰ See Letter from Finn Peterson, Deputy Director General, National IT and Telecom Agency (Denmark) to John Giusti, Acting Chief, International Bureau, Federal Communications Commission, June 17, 2009.

infrastructure operators include Danske Telecom and Sonofon. Cable providers include Dansk Kabel TV, TDC, and Telia Sofia. Experts estimate that the Denmark networks will be ready to support the projected demand of 50 Mbps downstream and 10 Mbps upstream demand in 80% of Danish households by 2013. All households will at least have 10 Mbps downstream and 5 Mbps upstream, which will meet consumer demands for all broadband except HDTV. To meet increasing future demands, Denmark must invest in new infrastructure, such as fiber optic.⁶¹

Other Media: AM (1);⁶² FM (355); TV (172).

Topography: Denmark occupies an area that is slightly less than twice the size of Massachusetts. About one-quarter of Denmark's population lives in greater Copenhagen. The terrain consists of low and flat to gently rolling plains.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
74.1	2,031,000	37.0	3.9	9.9	22.4	0.9

10. Estonia

Regulation: The Ministry of Economic Affairs and Communications (MEAC) sets communications policy.⁶³ The independent regulator is the Technical Surveillance Authority (TJA), a governmental organization established in 2008 by merging the Communications Board, the Railway Inspectorate and the Technical Surveillance Inspectorate.⁶⁴

The Estonian government has announced that it will provide broadband access to all homes and businesses in the country by 2015. The "EstWin" initiative is projected to create a 4,125 mile fiber-optic cable network offering speeds of up to 100 Mbps at a cost of 283 million Euro (US\$374 million). Of this amount, the government, drawing on money from EU structural funds, will pay approximately 25% of the project, and the country's major telecommunications companies will pay the remainder.⁶⁵

Competition: Strong competition is present only in the urban areas, where local cable operators compete with the incumbent telecommunications carrier, Elion, in the provision of Internet services. As of the end of 2008, 82% of broadband subscribers had service with Elion or cable operators Starman and STV.⁶⁶

Other Media: AM (0); FM (32); TV (15).

⁶¹ "Denmark as a High Speed Society," The High Speed Committee 2010 (Danish National IT and Telecom Agency) (January 2010, available at <http://en.itst.dk/the-governments-it-and-telecommunications-policy/the-high-speed-committee/High%20Speed%20Committee.pdf>).

⁶² The Danish Broadcasting Corporation transmits mostly via FM, but also provides AM and DAB services. See <http://www.dr.dk/OmDR/About+DR/20060622150803.htm> and <http://www.dr.dk/OmDR/Modtagelse/Radio/20091026132153.htm>.

⁶³ See MEAC, available at <http://www.mkm.ee/en>.

⁶⁴ See TJA, available at <http://www.tja.ee/?lang=en>.

⁶⁵ See TJA, available at <http://www.tja.ee/?lang=en>.

⁶⁶ See Konkurentsiamet (Estonian Competition Authority) 2008 Annual Report, available at http://www.konkurentsiamet.ee/public/AnnualReports/Annual_Report_2008.pdf.

Topography: Estonia occupies an area that is slightly smaller than New Hampshire and Vermont combined. The mainland terrain is flat, boggy, and partly wooded, while the south is hilly and the north is flat.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
Data N/A	317,900 ⁶⁷	23.70 ⁶⁸	Data N/A	Data N/A	Data N/A	Data N/A

11. Finland

Regulation: The Ministry of Transport and Communications (MINTC)⁶⁹ sets communications policy, and Finland's independent communications regulator is the Finnish Communications Regulatory Authority (FICORA).⁷⁰ The Finnish telecommunications market was first opened up to competition when data communication and business networks were liberalized under the Telecommunications Act of 1987. The laws governing telecommunications and digital broadcast networks in Finland were converged in mid-2002 by broadening the scope of the 1987 Act to include cable TV and digital wireless terrestrial broadcasting.⁷¹

FICORA has imposed an obligation on operators with significant market power to lease the local loops to other operators.

The Finnish government passed legislation in 2009 to make broadband connectivity a fundamental right for every person in the country. The law requires ISPs to offer connections of at least 1 Mbps to all of Finland's 5.3 million citizens by July 2010. FICORA says the mandate is necessary in order to improve the availability of broadband in Finland's remote rural areas and will improve business opportunities, access to online services such as banking, and quality of life for people living in sparsely populated regions. The legislation is part of a commitment from the Finnish government to provide universal broadband services, which includes a pledge to make 100 Mbps broadband access available to all Finnish residents by 2015.⁷²

Competition: Elisa, TeliaSonera, DNA and Finnet are the leading players in the broadband market.⁷³ Elisa is the market leader with 32% of the broadband market as of early 2009.⁷⁴ TeliaSonera follows

⁶⁷ ITU Statistics Database.

⁶⁸ *Id.*

⁶⁹ See MINTC, available at <http://www.mintc.fi/web/en/home>.

⁷⁰ See FICORA, available at <http://www.ficora.fi/en/index.html>.

⁷¹ See Goliath, http://goliath.ecnext.com/coms2/gi_0199-2883809/Finland-s-Broadcast-And-Telecommunications.html. The name of "Telecommunications Market Act" was also changed to "Communications Market Act" to reflect its new scope.

⁷² *Id.*

⁷³ See FICORA, "Market Review 3/2009: Price level of telecommunications services in Finland 2008" (Nov. 2009) (*FICORA Market Review Report*) available at http://www.ficora.fi/attachments/ruotsiav/5mnNXXdeL/DOHA_n580363_v3_Market_review_3_2009_-_Price_level_of_telecommunications_services_in_Finland_2008.pdf; see generally FICORA, Market Review Report section, available at <http://www.ficora.fi/en/index/tutkimukset/puhelinjalaajakaistapalvelut/markkinatieto.html>.

⁷⁴ *Id.*

closely behind with around 30%, while DNA holds 17% and Finnet holds 12%.⁷⁵ DSL services were introduced by Sonera (now TeliaSonera) in 1998, making Finland one of the first countries in the world to have broadband offerings.⁷⁶ There are 17 cable television companies that offer broadband services in Finland.⁷⁷ The largest is Welho, which operates from the capital, Helsinki.⁷⁸ Wireless broadband is limited in Finland, making up around 1% of Internet connections.⁷⁹

Other Media: AM (2); FM (59); TV (120).

Topography: Finland occupies an area slightly smaller than Montana. Finland's population is concentrated on a small southwestern coastal plain. The terrain is mostly low, flat to rolling plains interspersed with lakes and low hills.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
66.1	1,579,600	29.7	0.0	4.1	24.9	0.8

12. France

Regulation: The responsibility for France's national telecommunications policy resides in the General Directorate for the Information Technology and Postal Services (DiGITIP), a unit of the Ministry of Economy, Industry and Employment (MEIE).⁸⁰ Created in November 1998, the DiGITIP proposes and implements policies to promote an industrial and competitive environment favorable to France's communications industry, both domestically and internationally. France's Autorité de Régulation des Communications Electroniques et des Postes (ARCEP) is the independent regulator.⁸¹ ARCEP's responsibilities include adopting regulations articulating the rights and obligations of operators; enforcing licensees' obligations and imposing penalties for breaches of the Act; sanctioning operators for not meeting legal or regulatory requirements; creating technical rules for efficient use of radio spectrum and telephone numbers; allocating frequency and numbering resources; approving interconnection of operators with significant market power; and examining license applications on behalf of the MEIE. France's telecommunications sector is governed by The Telecommunications Law of July 9, 2004, relating to electronic communication and audiovisual communication services, which amended the 1996 Telecommunications Act and incorporated the EU's 2003 regulatory framework for electronic communications into French national law.

As of July 2009, unbundled loop facilities are available in exchanges covering more than 72% of the French population.⁸² ARCEP has emphasized that operators must resolve quality of service issues,

⁷⁵ *Id.*

⁷⁶ See Point Topic, available at <http://point-topic.com/content/operatorsource/profiles2/finland-broadband-overview.htm>.

⁷⁷ See FICORA, available at http://www.ficora.fi/attachments/englantiav/5m4R6KvqC/Broadband_Prices_in_the_Nordic_Countries_2006.pdf.

⁷⁸ See FICORA Market Review Report.

⁷⁹ *Id.*

⁸⁰ See MEIE, available at <http://www.telecom.gouv.fr/accueil.php3>.

⁸¹ See ARCEP, available at <http://www.arcep.fr/index.php?id=1&L=1>.

⁸² Letter from Joel Voisin-Ratelle, Head, International Bureau, Autorite de Regulation des Communications Electroniques et des Postes to John Giusti, Acting Chief, International Bureau, FCC, July 23, 2009.

including access to lines with technical problems.⁸³ The regulator has mandated access to rights of way, poles, ducts, and existing sheaths, and the sharing of the terminal part of fiber networks.⁸⁴ ARCEP has also developed a framework for fiber, which applies symmetric regulation to all operators – whoever is first to construct within a building is required to provide shared access to competitors.

Digital France 2012, adopted in October 2008, sets out France’s proposals for infrastructure development and includes a plan to achieve universal broadband access in France by the end of 2010 through the designation of “universal broadband providers.” These providers would be responsible for providing universal access and establishing public-private partnerships to increase the rollout of fiber networks.⁸⁵

Competition: Competitors in the broadband market include Orange (France Telecom), Free (Iliad), Alice (Iliad), Club Internet, Neuf Cegetel (SFR), and Numericable. Orange, Neuf Cegetel and Iliad hold the largest market shares. Local-loop unbundling is used primarily to provide differentiated DSL services. Providers, including Free and Neuf Cegetel, used a total of 6.1 million lines, either partially or fully unbundled, as of the end of the third quarter of 2008. Cable still accounts for much of the alternative last-mile infrastructure although Iliad and SFR’s Neuf Cegetel have begun the rollout of fiber.

The three leading broadband providers in France all offer IPTV and have committed to roll out fixed-mobile convergence services. The three companies all offer a “box” (Orange’s Livebox, Iliad’s Freebox and Neuf Cegetel’s Neuf Box) that customers can use to access broadband, VoIP, and Wi-Fi. In addition, Bouygues Telecom offers its “Ideo” service, which is a quadruple-play package. For the equivalent of \$54 per month, subscribers receive Internet, TV, fixed telephone and mobile phone connections.⁸⁶

Sixty-seven percent of the population in France has access to the Internet in their home. A recent study found 56% of Internet users used the Internet to research administrative and fiscal information, and 57% shopped online last year.⁸⁷ Fourteen percent of this connected population used their computers to make telephone calls through Skype or other applications; 33% are active on social networking sites, such as Facebook or LinkedIn; and 20% watch TV on the Internet.⁸⁸ Of the Internet users in France, 31% downloaded music during the past twelve months; 21% downloaded films; and 34% downloaded

⁸³ See https://www.cesifo-group.de/portal/page/portal/DICE_Content/INFRASTRUCTURE/COMMUNICATION_NETWORKS/Fixed-line-percent20Access-percent20Regulation/dev-loc-loop-unbund_0.pdf.

⁸⁴ ARCEP, “ARCEP pleased by operators’ publication of their FTTH technical and pricing reference offers. ARCEP has published a practical guide on the terms and conditions of fiber rollouts, for property owners, managers and joint owners,” (Feb. 10, 2010), available at [http://arcep.fr/index.php?id=8571&L=1&tx_gsactualite_pi1\[uid\]=1251&tx_gsactualite_pi1\[annee\]=&tx_gsactualite_pi1\[theme\]=&tx_gsactualite_pi1\[motscle\]=&tx_gsactualite_pi1\[backID\]=26&cHash=31099861b8](http://arcep.fr/index.php?id=8571&L=1&tx_gsactualite_pi1[uid]=1251&tx_gsactualite_pi1[annee]=&tx_gsactualite_pi1[theme]=&tx_gsactualite_pi1[motscle]=&tx_gsactualite_pi1[backID]=26&cHash=31099861b8).

⁸⁵ See <http://www.arcep.fr/fileadmin/reprise/communiqués/communiqués/2009/comnq-nkm-fibre-100709.pdf>.

⁸⁶ “Internet: les fournisseurs d’accès lancent des offres moins chères mais moins riches,” *Le monde* (Feb. 13, 2010), available at http://www.lemonde.fr/technologies/article/2010/02/12/internet-les-fournisseurs-d-access-lancent-des-offres-moins-cheres-mais-moins-riches_1304840_651865.html; “Numericable va lancer un forfait social Internet à 9,99 euros,” *Le monde* (Feb. 8, 2010) available at http://www.lemonde.fr/economie/article/2010/02/08/numericable-va-lancer-un-forfait-social-internet-a-9-99-euros_1302930_3234.html

⁸⁷ “La diffusion des technologies de l’information et de la communications dans la société française,” Centre de Recherche pour l’Etude et l’Observation des Conditions de Vie (CREDOC) (Nov. 2009), available at http://www.arcep.fr/uploads/tx_gspublication/etude-credoc-2009-111209.pdf.

⁸⁸ *Id.*

software. Twenty six percent of Internet users (and 49% of students who use the Internet) used it to look for jobs.⁸⁹

Other Media: AM (41); FM (about 3,500); TV (584).

Topography: France occupies an area slightly smaller than the size of Texas. The terrain consists of mostly flat plains or gently rolling hills in the north and west; the remainder is mountainous, especially with the Pyrenees in the south, and the Alps in the east.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
57.1	18,675,000	29.1	0.1	1.6	27.5	0.0

13. Germany

Regulation: Policy-related issues in the telecommunications sector are directed by the Federal Ministry of Economics and Technology (BMWi).⁹⁰ Its mission is to foster “successful economic activity” in Germany, and the Ministry plays a key legislative, administrative and coordination role in areas such as competition policy and trade issues that affect the German telecommunications sector. Germany’s independent telecommunications regulator is the Federal Network Agency, Bundesnetzagentur (BnetzA).⁹¹

Agreements for VDSL wholesale access are mainly contractual, with the conditions decided between operators and approved by the regulator, rather than by direct guidance from the BnetzA. The monthly fee competitors pay for access to unbundled loops from DT is currently \$14; the regulator will review local loop unbundling fees in March 2011. Commercial negotiations over wholesale access to fiber optic networks failed to reach agreements, however; the BnetzA set the terms of access in a December 2009 order. That order outlined the technical specifications for installing DSLAM equipment in the cabinets and fiber-optic cables into cable ducts, as well as the use of DT’s unlit fiber when the lack of space prohibits the sharing of passive infrastructure. In early February 2010, Germany’s highest administrative court ruled that DT did not have to give competitors access to dark fiber on its VDSL network. However, the Court stated (affirming the regulator’s December 2009 order) that DT did have to give competitors access to its street cabinets and empty pipes.

Germany’s Broadband Strategy was released in February 2009.⁹² The strategy defines two overarching targets. First, gaps in broadband penetration are to be eliminated and capable broadband, defined as at least 1 Mbps, is to be made available nationwide by the end of 2010. Second, a total of 75% of all German households are to have Internet access with speeds of at least 50 Mbps by 2014.⁹³ The government describes its approach as “incentive-oriented” and includes a number of tactics for achieving its short-term and long-term goals.⁹⁴ In the short-term it will focus mainly on financial support for local

⁸⁹ *Id.*

⁹⁰ See BMWi, available at <http://www.bmwi.de/English/Navigation/root.html>.

⁹¹ See BnetzA, available at <http://www.bundesnetzagentur.de/enid/98affacc9ef0ab056cda24ebc3920710,0/xn.html>.

⁹² BMWi, *The Federal Government’s Broadband Strategy* (Feb. 2009) (German Broadband Strategy), available at <http://www.bmwi.de/English/Redaktion/Pdf/broadband-strategy.property=pdf.bereich=bmwi.sprache=en.rwb=true.pdf>.

⁹³ German Broadband Strategy at 5.

⁹⁴ *Id.* at 10.

authorities and improving financial options available to companies. In the long-term, it will focus on incentives within the overall European Union regulatory framework and provide stimulus where it can promote synergies from infrastructure projects. Specific measures include optimizing shared use of existing infrastructure and facilities; and compiling an “infrastructure atlas” (*i.e.*, broadband map) and a database of construction sites.⁹⁵ The German government has also taken steps to make more spectrum available for mobile broadband by reallocating spectrum in the 800 MHz band newly available as a result of Germany’s digital television transition, and freeing up the 900 MHz band for data.⁹⁶

In July 2008, the EC approved Germany’s 141 million Euro (US\$223-million) state-aid plan to bring broadband to rural areas currently without access. The plan has the potential to help rural areas in the former East Germany (GDR), which have lagged behind the rest of the country in terms of broadband access. This is because the GDR information infrastructure was less developed than the western parts of Germany. In November 2008, the Commission approved another aid package worth 45 million Euro (US\$61 million), and another 25 million Euro (US\$34 million) in January, bringing the total amount of subsidy to 211 million Euro (US\$286 million).

Competition: As of 2009, 70% of German households had access to broadband services of at least 2 Mbps and 20% had access to VDSL technology supporting broadband services up to 50 Mbps.⁹⁷

The broadband market is dominated by DSL providers. As of 2009, there are approximately 11.6 million subscribers to retail broadband access services from Deutsche Telekom and another 10.5 million subscribers to companies utilizing resale, bitstream access or unbundled loops from Deutsche Telekom.⁹⁸ Other providers utilizing DSL include United Internet,⁹⁹ Vodafone,¹⁰⁰ Hansenet,¹⁰¹ Versatel, and EWE Group.¹⁰² There are approximately 2.8 million subscribers to broadband Internet access services from

⁹⁵ *Id.* at 11-13.

⁹⁶ *Id.* at 13; *see also* Zukunft Breitband (Germany’s Broadband Portal) “Flächendeckende Breitbandversorgung forcieren - Aufbau von Hochleistungsnetzen unterstützen” available at <http://www.zukunft-breitband.de/BBA/Navigation/breitbandstrategie.html>.

⁹⁷ German Broadband Strategy at 7.

⁹⁸ Dialog Consult for the Association of the Telecommunications and Value-Added Service Providers (VATM), *11th Joint Analysis of the Telecommunications Market 2009: Results of a survey of member companies of the in the third quarter of 2009*, (Nov. 2009) (VATM Analysis of the Telecommunications Market) at 14, available at <http://www.vatm.de/uploads/media/10-02-2010.pdf>.

⁹⁹ Freenet, previously a leading ISP, sold its DSL assets to United Internet in May 2009. *See* Freenet Press Release, May 26, 2009, available at <http://www.freenet-ag.de/pr/8256.htm>. In Appendix C, we include price information for Freenet, available at the time of our research.

¹⁰⁰ In Appendix C, we include price information for Arcor, which has been solely owned by Vodafone since May 2008. *See* Vodafone website, “An Integrated Communications Group Takes Shape As Vodafone and Arcor Introduce An Integrative Management Structure” (June 2008), available at http://www.vodafone.com/start/media_relations/news/local_press_releases/germany/germany_press_release/an_integrated_communications.html, Vodafone Annual Report (Mar. 2009), available at http://www.vodafone.com/annual_report09/financials/notes_cons_fin_statements/note12.html.

¹⁰¹ Telefónica purchased Hansenet from Telecom Italia in 2009. *See* Telecom Italia, “Telecom Italia: definitive agreements finalized for the sale of HanseNet to Telefonica” (Dec. 3, 2009) available at http://www.telecomitalia.it/tiportal/en/archivio/media/comunicati_stamp/telecom_italia/corporate/economico_finanziario/2009/12-03.html. In Appendix C, we include price information for Alice, which is the name Hansenet uses to market its broadband access services. *See* Alice website, available at <http://www.alice-dsl.de>.

¹⁰² VATM Analysis of the Telecommunications Market at 17.

cable companies, including Kabel Deutschland GmbH, Unitymedia and Kabel BW.¹⁰³ A number of regional carriers, such as M-Net (Munich) and NetCologne (Cologne) are rolling out fiber-optic networks, including fiber-to-the-home (FTTH).¹⁰⁴ There are also a small number of subscribers to broadband satellite services.¹⁰⁵

Other Media: AM (51); FM (787); TV (373).

Topography: Germany occupies an area that is slightly smaller than Montana. Germany's terrain consists of lowlands in the north, uplands in the center, and Bavarian Alps in the south.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
54.9	24,043,000	29.3	0.1	2.4	26.7	0.1

14. Greece

Regulation: Both the Ministry of Transport and Communications (MTC)¹⁰⁶ and the independent regulator, Hellenic Telecommunications & Post Commission (EETT),¹⁰⁷ are responsible for oversight of Greece's regulatory framework. In 2006, EETT incorporated the EU's 2003 regulatory framework for electronic communications into Greek law, and imposed new regulations on local loop unbundling.

In 2005, Greece adopted a national broadband plan titled Digital Strategy 2006-2013.¹⁰⁸ The plan's objectives are to use broadband and information and communications technologies (ICT) to enhance business productivity and to improve the quality of life for the Greek population, in part through the development of e-government services.¹⁰⁹ In 2008, the Greek government announced that development had begun on metropolitan area fiber optic networks for 75 cities and wireless networks for 120 smaller cities.¹¹⁰ In February 2009, the Greek government announced a public-private partnership to build a national fiber-optic network to Athens and 50 other cities (including the islands) with speeds of up to 100 Mbps for nearly 650,000 users by the end of 2010 and to be expanded to over two million households over the next seven years.¹¹¹

¹⁰³ *Id.* at 12.

¹⁰⁴ At the end of 2009, the number of subscribers to fiber optic broadband access services was less than 100,000. *Id.* at 14.

¹⁰⁵ As of the end of 2008, there are approximately 30,000 subscribers to satellite-delivered broadband services in Germany. German Broadband Strategy at 7.

¹⁰⁶ See MTC, available at <http://www.yme.gr/index.php?getwhat=1&oid=531&id=&tid=531>.

¹⁰⁷ See EETT, available at http://www.eett.gr/opencms/opencms/EETT_EN/index.html.

¹⁰⁸ See Ministry of Economy and Finance, "Digital Greece and the Greek Digital Strategy" (Jan. 2008) (*Greek Digital Report 2008*) available at http://www.mnec.gr/export/sites/mnec/en/press_office/DeltiaTypou/Documents/2008-01-28_FactSheetOnDigitalGreece.pdf.

¹⁰⁹ *Id.*

¹¹⁰ *Id.* at 6.

¹¹¹ Nicolae Oaca, "Broadband for All Europeans' to Fight Economic Crisis", *IEEE Global Communications Newsletter* (June 2009) at 2.

Competition: Competitors in the broadband market include OTEnet, Forthnet, and Tellas.¹¹² As of March 2008, 34% of OTE's DSL lines were provided by third-party ISPs.¹¹³ Greece has no cable networks.

Other Media: AM (26); FM (88); TV (36).

Topography: Greece occupies an area slightly smaller than the size of Alabama. Greece's terrain is mostly mountains with ranges extending into the sea as peninsulas or chains of islands.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
22.5	1,908,000	17.0	0.0	0.0	17.0	0.0

15. Hong Kong

Regulation: Established in July 1993, the Office of the Telecommunications Authority (OFTA) is Hong Kong's independent regulator for telecommunications.¹¹⁴ OFTA issues telecommunications licenses, administers the numbering plan, oversees technical standards and international affairs, manages spectrum, and provides technical support in the regulation of broadcasting services. The Commerce and Economic Development Bureau (CEDB) is Hong Kong's policy-making body for the telecommunications, broadcasting, and film industries.¹¹⁵ The CEDB sets information technology goals for Hong Kong, in cooperation with the Legislative Council of the government.

Although Hong Kong has been a part of the People's Republic of China since 1997, its communications market remains more competitive, more market-driven and less regulated than other parts of China. All sectors of Hong Kong's telecommunications market have been liberalized, and there are no foreign ownership restrictions.

In July 2004, OFTA decided that mandatory local loop unbundling would end by June 2008. OFTA determined that this decision would promote investment and consumer choice in broadband networks. Unbundling is maintained in buildings where it is technically unfeasible or economically unviable for competitors to install infrastructure.

The Digital 21 Strategy, the blueprint for ICT development in Hong Kong, sets out a vision of building on Hong Kong's position as a "world digital city." The strategy was first published in 1998 and is updated regularly. The 2008 edition identified five action areas for implementation between 2008 and 2010.¹¹⁶

Competition: Competitors in the broadband market include PCCW, HKNet, and City Telecom (HKBN).¹¹⁷ I-Cable provides broadband over its cable system. HKBN, SmarTone, HKNet and other fixed wireless licensees utilize alternative last-mile infrastructure.

¹¹² In Appendix C, we include price information for Hellas Online (HOL), a competitive entrant offering broadband services. See Hellas Online website, available at <http://www.hol.gr>.

¹¹³ See European Competitive Telecommunications Association (ECTA), available at <http://www.ectportal.com/en/>.

¹¹⁴ See OFTA, available at <http://www.ofta.gov.hk/en/>.

¹¹⁵ See CEDB, available at <http://www.cedb.gov.hk/about/index.htm>.

¹¹⁶ <http://info.gov.hk/digital21/eng/index.htm>.

Video-on-demand services have contributed to Hong Kong having one of the highest broadband penetration rates in the world.¹¹⁸ Hong Kong's household broadband penetration rate in October 2009 was 79%.¹¹⁹ Hong Kong has one of the highest household penetration rates for IPTV in the world (1.2 million IPTV subscribers).¹²⁰

Other Media: AM (6); FM (10); TV (2).

Topography: Hong Kong occupies an area six times the size of Washington, DC. The terrain is hilly to mountainous with steep slopes, and lowlands in the north.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
Data N/A	1,948,300 ¹²¹	27.9 ¹²²	Data N/A	Data N/A	Data N/A	Data N/A

16. Hungary

Regulation: The NCAH (National Communications Regulatory Authority) was established in 2004 as Hungary's independent regulatory authority.¹²³ It is regulated by Act C of 2003 on electronic communications. The incumbent, Magyar Telekom, has been required to offer unbundling to allow competitors access to its network since 2001.

Hungary adopted a National Broadband Strategy in 2005. Its aim is to facilitate content development and the spread of broadband communication in the private and public sectors.¹²⁴

Competition: Competitors in the broadband market include Magyar Telekom (T-Mobile),¹²⁵ HTCC/Invitel, UPC, Fibernet, and DIGI.¹²⁶ The four largest cable broadband providers are UPC, T-Kabel, Fibernet, and DIGI. Magyar Telekom also offers the Sky DSL service, which provides broadband via satellite networks.

(...continued from previous page)

¹¹⁷ In Appendix C, we include price information for New World Telecom, a competitive entrant offering broadband services. See New World Telecom website, available at <http://www.newworldtel.com>.

¹¹⁸ See International Telecommunication Union Workshop on Promoting Broadband, April 9-11, 2003, Promoting Broadband: Background Paper 12, Doc. PB/03 (April 7, 2003), available at <http://www.itu.int/osg/spu/ni/promotebroadband/PB03-PromotingBroadband.pdf>.

¹¹⁹ Hong Kong Special Administration Region Government, Hong Kong: The Facts Telecommunications (Oct. 2009), available at <http://www.gov.hk/en/about/abouthk/factsheets/docs/telecommunications.pdf>.

¹²⁰ *Id.*

¹²¹ ITU Statistics Database.

¹²² *Id.*

¹²³ See NHAH, available at <http://www.hif.hu/index.php?lang=en>.

¹²⁴ See ITU, available at <http://www.itu.int/wsis/stocktaking/plugin/documents.asp?project=1142001674&lang=en>.

¹²⁵ In Appendix C, we include price information for T-Home, which is the name Magyar Telekom uses to market its broadband access services. See T-Home website, available at <http://www.t-home.hu/>.

¹²⁶ In Appendix C, we include price information for Enternet and Extranet, two competitive entrants offering broadband services. See Enternet website, available at <http://www.enternet.hu> and Extranet website, available at <http://www.extranet.hu>.

Other Media: AM (5); FM (90); TV (95).

Topography: Hungary is slightly smaller than Indiana. The terrain is mostly flat to rolling plains; there are hills and low mountains on the Slovakian border.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
42.3	1,688,414	16.8	1.0	7.6	8.2	0.0

17. Iceland

Regulation: Iceland's Post and Telecom Administration (PTA)¹²⁷ was created in 1997 and is an independent body under the direction of the Minister of Communications (MOC).¹²⁸ The PTA is responsible for granting operational licenses for posts and telecommunications, supervising licensees and enforcing the Government's telecommunication policy and regulations.

The legal framework for electronic communications services is influenced by the Directives of the EU. Having signed the Agreement on the European Economic Area, Iceland committed to adopt all of the EU Directives in the field of electronic communications. Iceland's Electronic Communications Act and the Act on the PTA, both of which were passed in 2003, implement the major provisions of the EU Communications Directive package of 2002.

In 2004, the government released a policy document called "Resources to Serve Everyone: Policy of the Government of Iceland on the Information Society 2004-2007."¹²⁹ This national policy document included targets for e-government, e-business, education, environment, security, health care and social services.

Competition: Telecommunications infrastructure in Iceland is modern and fully digitized, with satellite-earth stations, fiber-optic cables, and an extensive broadband network. The incumbent Siminn and Vodafone Iceland offer broadband via DSL lines. Mobile phone and broadband penetration rates are among the highest in the world, the latter benefiting from extensive DSL and fiber networks.

Other Media: AM (3); FM (about 70); TV (14).

Topography: Iceland occupies an area slightly smaller than Kentucky. Iceland's terrain is mainly a plateau interspersed with mountain peaks and ice fields. The coast is deeply indented by bays and fiords.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
83.2	104,604	32.8	1.3	0.0	30.7	0.7

¹²⁷ See PTA, available at http://www.pta.is/default.aspx?cat_id=101.

¹²⁸ See MOC, available at <http://eng.samgonguraduneyti.is/>.

¹²⁹ See http://eng.forsaetisraduneyti.is/media/English/IT_Policy2004.pdf.

18. Ireland

Regulation: Policy is set by the Department of Communications, Energy and Natural Resources (DCENR).¹³⁰ The Irish telecom regulator is the Commission for Communications Regulation (ComReg).¹³¹ Under the Communications Regulation Act of 2002, ComReg sets prices, allocates frequencies, and issues licenses to applicants. The incumbent, eircom, is required to provide unbundled loops and bitstream access to competitive providers.¹³²

In January of 2009, the Irish government announced its National Broadband Scheme (NBS), which is intended to provide mobile and wireless broadband to regions and populations that do not have broadband access.¹³³ As part of the plan, in December 2008, the government entered into a contract with “3” (a Hutchison Whampoa company), to be the provider of services to unserved areas. Residential and business customers within those areas can subscribe to mobile wireless broadband services with a minimum download speed of 1.2 Mbps and a minimum upload speed of 200 kbps with a contention ratio of 36:1.¹³⁴ In some areas where service will be very costly and difficult to reach, “3” will be allowed to offer a satellite product of 1Mbps download and 128 kbps upload.

Competition: Leading broadband competitors in Ireland include eircom, Irish Broadband, BT Ireland, and UPC.¹³⁵ In the third quarter of 2009, eircom controlled 35.5% of the retail broadband market. The remainder of the market was held by operators of alternative broadband platforms, including cable, fixed wireless, fiber, satellite and mobile broadband.¹³⁶

Other Media: AM (9); FM (106); TV (4).

Topography: Ireland occupies an area slightly larger than West Virginia. Over 40% of the population resides within 62 miles of Dublin. The terrain consists of mostly level to rolling interior plains surrounded by rugged hills and low mountains, with sea cliffs on the west coast.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
42.9	950,082	21.4	0.1	2.8	15.5	3.0

19. Italy

Regulation: The Ministry of Economic Development (MED) is responsible for overall supervision of Italy’s postal and financial systems, as well as coordination of telecommunications policy.¹³⁷ The

¹³⁰ See DCENR, available at <http://www.dcenr.gov.ie/>

¹³¹ See ComReg, available at <http://www.odtr.ie/>.

¹³² See ComReg, available at http://www.comreg.ie/_fileupload/publications/pres170402.pdf.

¹³³ See Department of Communications, Energy and Natural Resources, “National Broadband Scheme” (2008), available at <http://www.dcenr.gov.ie/Communications/Communications+Development/National+Broadband+Scheme.htm>.

¹³⁴ *Id.*

¹³⁵ In Appendix C, we include price information for Digiweb, a competitive entrant offering broadband services. See Digiweb website, available at <http://www.digiweb.ie/about-us>.

¹³⁶ ComReg, available at http://www.comreg.ie/_fileupload/publications/ComReg09101.pdf.

¹³⁷ See MED, available at http://www.comunicazioni.it/english_version/english_ministry/.

Department of Communications, located within the MED, reviews technical regulations related to ensuring service quality for ICT users; publishes technical procedures regarding type approval for terminal apparatus and the use and connection to telecommunications networks; grants licenses and authorizations; and assists with the planning, allocation and management of spectrum. The Autorità per le Garanzie nelle Comunicazioni (AGCOM) is Italy's independent regulator.¹³⁸ Its responsibilities include determining which companies have significant market power; establishing interconnection agreements; setting conditions for access to public networks and granting licenses; ensuring quality of service; and supervising numbering policies.

The take-up of residential broadband services has been largely influenced by two phenomena: the absence of cable television and the relatively limited penetration (approximately 50%) of PCs in Italian households. These factors are only partially mitigated by the availability of fiber-to-the-home and significant take-up of mobile broadband, which is growing.¹³⁹

In October 2009, the Italian government announced a universal broadband plan to ensure broadband access for all Italians by the end of 2010. The plan, which will require investment of around 800 million Euro (US\$1.19 billion) from public and private sources, aims to provide universal access with transmission speeds of at least 2 Mbps.¹⁴⁰

Competition: The leading competitors in the Italian broadband market are Telecom Italia, FastWeb, Wind, Tiscali, and Vodafone (Tele2).¹⁴¹ Alternative last-mile infrastructure (provided by competitive local exchange carriers and fixed wireless and satellite operators), the resale of DSL services, local-loop unbundling and WiMAX have all provided competition for the incumbent Telecom Italia.¹⁴²

Other Media: AM (100); FM (4,000); TV (358).

Topography: Italy occupies an area slightly larger than Arizona. The terrain is mostly rugged and mountainous with some plains and coastal lowlands.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
30.8	11,878,000	19.8	0.5	0.0	19.2	0.1

20. Japan

Regulation: The Ministry of Internal Affairs and Communications (MIC) develops communications policy and administers the Telecommunications Business Law and the Radio Wave Law.¹⁴³ MIC also functions as Japan's regulator, issuing telecom and broadcasting licenses, and overseeing wire and radio-based services for domestic and international communications. The Telecommunications Business

¹³⁸ See AGCOM, available at http://www2.agcom.it/eng/eng_intro.htm.

¹³⁹ See Letter from Antonio Amedola, Advisor to Secretary-General, Autorita per le garanzie nelle comunicazioni, AGCOM, to John Giusti, Acting Chief, International Bureau, FCC, June 10, 2009.

¹⁴⁰ See Deepa Babington, "Italian broadband plan welcomed but hurdles loom," Reuters, available at <http://www.reuters.com/article/idUSLH12584920090717>.

¹⁴¹ AGCOM Report, available at http://www2.agcom.it/eng/mkt_analysis/mkt_12_summary.pdf.

¹⁴² In Appendix C, we include price information for Libero. See Libero website, available at <http://www.libero.it/>.

¹⁴³ See MIC, available at <http://www.soumu.go.jp/english/index.html>

Dispute Resolution Commission (TBDR) has the power to fine, revoke licenses, and order remedies without appeal or challenges from the government. MIC cannot overrule or challenge TBDR decisions or become involved in its deliberations.

In September 2006, MIC released its “New Competition Promotion Program 2010,” a roadmap for a comprehensive review of its competition rules. Revised by the MIC in 2008, the plan seeks to promote facilities-based competition, review dominant regulations, review the calculation method for interconnection charges of NTT East/West, promote competition in the mobile communications market, develop environments intended for implementation of IP-enabled communication terminals, review tariff policies, review universal service system, develop environments intended to ensure network neutrality, strengthen dispute settlement functions, and enhance consumer protection measures.¹⁴⁴

Competition: Competitors in the broadband market include NTT, Softbank BB, and KDDI, eAccess, Nifty, Opticom, TEPCO and NEC Big Globe. Competition to NTT in the broadband market is provided by Jupiter Broadband (cable broadband) and Japan Telecom, KDDI and PoweredCom (all through alternative last-mile infrastructure). The focus of the broadband media market in recent years is on fiber. The number of fiber-to-the-home (FTTH) subscribers has grown: FTTH is now the dominant broadband technology in the country and the key driver for overall growth in broadband services.

Other Media: AM (215); FM (89); TV (211).

Topography: Japan occupies an area slightly smaller than California. The terrain is mostly rugged and mountainous.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
58.5 ¹⁴⁵	30,927,003	24.2	12.4	3.3	8.5	0.0

21. Korea

Regulation: The Korea Communications Commission (KCC) was created when the government combined the Ministry of Information and Communication (MIC) and Korean Broadcasting Commission (KBC) to form the KCC in March 2008.¹⁴⁶ This converged body regulates telecommunications and broadcasting. The Korea Communications Standards Commission (KCSC) is responsible for ensuring “public value and fairness” of broadcasting and Internet content.¹⁴⁷ The KCSC is a non-governmental, independent organization, and its relationship with the rest of the government is unique. If the KCSC decides that government action is necessary to remedy a situation, it must make a recommendation to the KCC.

The u-Korea Master Plan was adopted in 2006. This plan’s goal was “to achieve the world’s first ubiquitous society” and to have every household, regardless of income, be equipped with access to the Internet with a minimum transmission speed of 1 Mbps. In February 2009, Korea announced plans to

¹⁴⁴ MIC Communication News, Ministry of Internal Affairs and Communications, Vol. 19, No. 1 (Apr. 25, 2008) (last visited May 18, 2009), available at http://www.soumu.go.jp/main_sosiki/joho_tsusin/eng/Releases/NewsLetter/Vol19/Vol19_01/Vol19_01.html.

¹⁴⁵ This figure only includes broadband access via a computer.

¹⁴⁶ See KCC, available at <http://www.kcc.go.kr/user/ehpMain.do>.

¹⁴⁷ See KCSC, available at http://www.kocsc.or.kr/eng/01_About/Message.php.

upgrade the national network to offer 1 Gbps service by 2012. Key applications include e-government and e-commerce.¹⁴⁸

Competition: Competitors in Korea’s broadband market include KT Corp., SK Broadband, and LG Powercom. KT Corp. and SK Broadband are the major providers, and LG Powercom, Dreamline, and LG Dacom are smaller providers. One of the key services that drove broadband adoption in Korea in the early stages of its broadband development was online interactive games.¹⁴⁹ Currently, the two most popular broadband services in Korea are music downloads and gaming.¹⁵⁰

Other Media: AM (96); FM (322); TV (57).

Topography: Korea occupies an area slightly larger than Indiana. The terrain consists of mostly hills and mountains with wide coastal plains in the west and the south.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
94.3 ¹⁵¹	15,938,529	32.8	15.1	10.5	7.2	0.0

22. Latvia

Regulation: The Department of Communications in the Ministry of Transport (MOT) is responsible for policy in the communications sector of Latvia.¹⁵² The Public Utilities Regulation Commission (Sabiedrisko pakalpojumu regulēšanas komisija or SPRK) was established in 2001 as a unified regulatory body with oversight of the telecommunications, energy, railway and postal sectors.¹⁵³ The SPRK approves tariffs, issues licenses and supervises technical regulations and standards.

There are no fully unbundled local loops in Latvia, and the typical wholesale access offer usually amounts to a simple resale agreement in which both the brand and the retail price of the service are controlled by the fixed incumbent.

The Broadband Network Development Strategy 2006-2012, adopted in December 2005, uses state and EU structural funds (ERDF) to cover up to 35% of the total costs for the expansion of high-quality broadband network infrastructure in rural areas.¹⁵⁴

¹⁴⁸ <http://www.ipc.go.kr/servlet/download?pt=/ipceng/public&fn=u-KOREA+Master+Plan+.pdf>.

¹⁴⁹ Kim Yongsoo et al., World Bank, “Building broadband: Strategies and policies for the developing world“ (Jan. 2010), available at <http://web.worldbank.org/WBSITE/EXTERNAL/TOPICS/EXTINFORMATIONANDCOMMUNICATIONANDTECHNOLOGIES/0,,contentMDK:20795271~pagePK:210058~piPK:210062~theSitePK:282823,00.html#2010> (download from 2010 publications list).

¹⁵⁰ *Id.*

¹⁵¹ This includes broadband access modes such as DSL, cable, other fixed and wireless broadband via computers, and mobile phone access.

¹⁵² See MOT, available at <http://www.sam.gov.lv/satmin/content/?cat=134>.

¹⁵³ See SPRK, available at <http://www.sprk.gov.lv/?setl=2>.

¹⁵⁴ See European Union “eGovernment Fact Sheet – Latvia – Strategy (last updated September 2009),” available at <http://www.epractice.eu/en/document/288288>.

Competition: Competitors to the incumbent carrier, Lattelkom, include Telekom Baltija, Apollo (Lattelecom), Baltkom, Latnet, Izzi (formerly Telia Multicom), and Vernet. The broadband market is led by Lattelecom, but Telekom Baltija, Baltkom, and Izzi (formerly Telia Multicom) are among the alternative operators providing competition. Cable companies and fixed wireless companies serve 43% of the total broadband lines and provide infrastructure-based competition in some parts of the country. Lattelecom and Baltkom have both invested in FTTH networks in the capital of Riga.

Other Media: AM (8); FM (62); TV (37).

Topography: Latvia occupies an area slightly larger than West Virginia. The terrain is mostly fertile, low-lying plains with some hills in the east.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
Data N/A	146,000 ¹⁵⁵	6.44 ¹⁵⁶	Data N/A	Data N/A	Data N/A	Data N/A

23. Lithuania

Regulation: The Information and Communication Technology Department of the Ministry of Transport and Communications (MTC) is responsible for making policy in the communications sector.¹⁵⁷ The independent regulator is the Communications Regulatory Agency (Ryšiu Reguliavimo Tarnyba or RRT).¹⁵⁸ RRT promulgates rules and regulations on interconnection of telecommunications networks, pricing and the provision of telecommunications services.

The Development Strategy of the Broadband Infrastructure of Lithuania for 2005-2010 was published on December 31, 2002. Its goals include ensuring availability of broadband to 98% of small and medium enterprises by 2010.¹⁵⁹ It also established the public company “Placiajuostis Internetas,” a non-profit organization, to develop rural broadband access and training.¹⁶⁰

Competition: The leading competitors to incumbent Teo LT are Balticum, Infrostruktura, Lithuanian Telecom (Takas), Microlink, Omnitel (TeliaSonera), Penkj Kontinentai, Tele2, and Vinita. The broadband market is led by Teo LT. Competition to Teo LT in the broadband Internet market is provided through cable broadband, alternative infrastructure (via competitive local exchange carriers and satellite operators) and the resale of DSL services.

Other Media: AM (29); FM (142); TV (44).

Topography: Lithuania occupies an area slightly larger than West Virginia. The terrain consists of fertile lowlands and many scattered small lakes.

¹⁵⁵ ITU Statistics Database.

¹⁵⁶ *Id.*

¹⁵⁷ See MTC, available at <http://www.transp.lt/en>.

¹⁵⁸ See RRT, available at <http://www.rrt.lt/index.php?-1341057335>.

¹⁵⁹ See <http://www.transp.lt/Default.aspx?Element=ViewArticle&Lang=EN&TopicID=215&ArticleID=1936>.

¹⁶⁰ See http://www.placiajuostis.lt/index.php?option=com_content&task=view&id=4&Itemid=4&lang=en.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
Data N/A	590,100 ¹⁶¹	17.77	Data N/A	Data N/A	Data N/A	Data N/A

24. Luxembourg

Regulation: The Ministry of Media and Communications (MMC) is responsible for telecommunications policy.¹⁶² The Institut Luxembourgeois de Regulation (ILR) regulates the telecommunications sector under the regulatory guidelines of the EC's regulatory framework.¹⁶³

There are over 4,000 unbundled lines in Luxembourg; most of them are fully unbundled in the business market. In February 2007, the ILR and the incumbent agreed to lower collocation costs.

Competition: Competitors include Luxembourg Online, P&T Luxembourg, and Orange.¹⁶⁴ Incumbent P&T Luxembourg is the largest provider, holding a 68% share in the country's broadband market. Competition to P&T Luxembourg is provided via cable broadband, the resale of DSL service, and local-loop unbundling. Resale is the largest form of alternative broadband access in Luxembourg and accounts for 10% of the broadband market.

Other Media: AM (2); FM (6); TV (5).

Topography: Luxembourg occupies an area slightly smaller than Rhode Island. The terrain is mostly comprised of gently rolling uplands with broad, shallow valleys. In the north, there are uplands to slightly mountainous terrain and a steep slope down to Moselle flood plain in the southeast.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
61.0	153,172	31.3	0.0	5.3	26.0	0.0

25. Malta

Regulation: The Ministry for Infrastructure Transport and Communications (MITC) is responsible for making policy in the communications sector.¹⁶⁵ The Malta Communications Authority (MCA) was established in January 2001, under the Electronic Communications (Regulations) Act of 1997.¹⁶⁶ The MCA is tasked with regulating electronic communications and e-commerce. The Act of 1997, as amended, includes requirements for interconnection and access to unbundled loops for competitive providers.

¹⁶¹ ITU Statistics Database.

¹⁶² See MMC, available at, at <http://www.mediacom.public.lu/>.

¹⁶³ See ILR, available at <http://www.ilr.public.lu/>.

¹⁶⁴ In Appendix C, we include price information for Cegecom. See Cegecom website, available at <http://www.libero.it/>. <http://www.cegecom.com>.

¹⁶⁵ See MITC, available at <https://mitc.gov.mt/?lid=1>.

¹⁶⁶ See MCA, available at <http://www.mca.org.mt/>.

Malta's broadband plan is titled "The Smart Island: The National ICT Strategy for Malta (2008-2010)." Among its goals for 2010 are (1) to connect 80% of households to broadband, (2) to ensure that 75% of the population are "ICT-literate," and (3) to establish 101 high-speed broadband access centers in communities throughout Malta.¹⁶⁷

Competition: Competitors in the broadband market include the incumbent carrier Go, Melita Cable, Vodafone and other smaller ISPs.¹⁶⁸ Go uses DSL, Melita Cable uses cable facilities, and Vodafone uses WiMAX.

Other Media: AM (1);¹⁶⁹ FM (18); TV (6).

Topography: Malta occupies an area that is slightly less than twice the size of Washington, DC. The terrain is mostly low, rocky flats to dissected plains with many coastal cliffs.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
Data N/A	98,800 ¹⁷⁰	24.25 ¹⁷¹	Data N/A	Data N/A	Data N/A	Data N/A

26. Netherlands

Regulation: The Directorate-General for Energy and Telecom (DGET) within the Dutch Ministry of Economic Affairs, is charged with promoting the availability and use of high-quality electronic communication networks throughout the Netherlands.¹⁷² Specifically, the DGET promotes the organization and operation of markets for energy, electronic communication and postal services, including advocating for users' rights and protection, and, where necessary, encourages the ICT market to develop facilities, products and services for electronic communication. The Independent Post and Telecommunications Authority of the Netherlands (OPTA) is the independent regulator.¹⁷³ OPTA is charged with promoting competition in the national telecommunications market. Every three years it is required to conduct analyses of all electronic communications services and examine price variations, the breakdown of the market and the opportunities available to new entrants.

Nederland BreedbandLand (NBL), created in 2002, is the independent national platform for the provision of aid and incentives to the social sectors for the "better and smarter" use of broadband. The NBL identifies and accumulates knowledge and experience from broadband projects and bundles it in the Kennisbank (Knowledge Bank). The NBL disseminates the knowledge through seminars, workshops and other related events. In addition, the NBL tracks potential "breakthrough" community broadband projects

¹⁶⁷ See *The Smart Island, The National ICT Strategy for Malta 2008-2010*, available at <http://www.thesmartisland.gov.mt/>.

¹⁶⁸ MCA, Wholesale Broadband Access Market: Identification and Analysis of Markets, Determination of Market Power and Setting of Remedies, Final Decision at 40 (Nov. 14, 2008), available at <http://www.mca.org.mt/infocentre/openarticle.asp?id=1241&pref=48>.

¹⁶⁹ See <http://www.mds975.co.uk/masts/malta01.html>.

¹⁷⁰ ITU Statistics Database.

¹⁷¹ *Id.*

¹⁷² See DGET, available at http://ez.nl/english/Organisation/Organisation_chart/Directorate_General_for_Energy_and_Telecom.

¹⁷³ See OPTA, available at <http://www.opta.nl/en/>.

on a sector-by-sector basis to support their development into best practices and to ensure expansion to the national level. The NBL primarily focuses on the following sectors: (1) healthcare, (2) small and mid-range enterprises, (3) education, (4) security, (5) government, (6) living & working, and (7) traffic & transport.¹⁷⁴ In 2004, the Ministry of Economic Affairs released a Broadband Strategy Outline.¹⁷⁵

Competition: The Netherlands has one of the highest broadband penetration rates in Europe.¹⁷⁶ Broadband providers in the Netherlands include KPN,¹⁷⁷ Orange,¹⁷⁸ Tele2-Versatel, UPC, BBned, Ziggo and other cable providers. The broadband sector reflects competition between the incumbent telecommunications carrier KPN, cable operators and other competitors utilizing unbundled local loops.¹⁷⁹ Ziggo is the largest broadband provider with over a million broadband customers, while KPN is the second largest provider.¹⁸⁰

Other Media: AM (4); FM (567); TV (342).

Topography: Netherlands occupies an area that is slightly less than twice the size of New Jersey. The terrain is mostly coastal lowland and reclaimed land with some hills in the southeast.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
74.0	6,262,500	38.1	1.1	13.7	22.5	0.8

27. Norway

Regulation: The Ministry of Transport and Communications (MTC) monitors telecommunications markets in Norway.¹⁸¹ The Norwegian Post and Telecommunications Authority (NPT) is an autonomous, self-financed administrative agency under the MTC.¹⁸² The NPT is responsible for monitoring private sector compliance with national telecommunications statutes, regulations and license requirements; supervising telecommunications providers; supervising registries; assigning domain names; and contingency planning for national network security.

¹⁷⁴ See <http://www.nederlandbreedbandland.nl/page/English>.

¹⁷⁵ Ministry of Economic Affairs (NL), "The Broadband Paper; A question of pace and better utilization" (May, 2004).

¹⁷⁶ See "ICT Statistics: Internet Indicators: Subscribers, Users, Broadband Subscribers," ITU, http://www.itu.int/ITU-D/icteye/Reporting/ShowReportFrame.aspx?ReportName=/WTI/InformationTechnologyPublic&RP_intYear=2008&RP_intLanguageID=1.

¹⁷⁷ In Appendix C, we include price information for HetNet and XL4ALL which are both brand names of KPN. See KPN website, "About Us" available at http://kpn.com/reporting08/review08/group_at_a_glance/index.html.

¹⁷⁸ T-Mobile operates under the Orange brand in the Netherlands.

¹⁷⁹ See "Broadband ULL," OPTA, <http://www.opta.nl/nl/wat-doet-opta/markten/breedband-ull/>; see also "Broadband WBT," OPTA, <http://www.opta.nl/nl/wat-doet-opta/markten/breedband-wbt/>.

¹⁸⁰ "This Is KPN," KPN, <http://www.kpn.com/corporate/en/Company-profile-1/company-1/This-is-KPN.htm>; Gertjan Groen, "De drie grote kabelbedrijven die zich hebben verenigd in Zesko, gaan in mei verder onder de nieuwe naam Ziggo. Later dit jaar zullen klanten kennismaken met het nieuwe merk," Telecomwereld (Jan. 29, 2008), <http://telecomwereld.nl/n0002471.htm>.

¹⁸¹ See MTC, available at <http://www.regjeringen.no/en/dep/sd.html?id=791>.

¹⁸² See NPT, available at http://www.npt.no/portal/page/portal/PAG_NPT_NO_EN/PAG_NPT_EN_HOME.

Competition: The broadband penetration rate in Norway has increased steadily to become one of the highest in Europe. The two leading broadband competitors in Norway are Telenor and NextGenTel. Telenor has just over 50% of broadband subscribers.¹⁸³

Other Media: AM (5); FM (160); TV (69).

Topography: Norway occupies an area slightly larger than New Mexico. Its terrain consists of mostly high plateaus and rugged mountains broken by fertile valleys. There are also small, scattered plains, and the arctic tundra in the north. The coastline is deeply indented by fjords.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
73.0	1,645,619	34.5	3.5	7.7	22.7	0.7

28. Poland

Regulation: The Ministry of Infrastructure (MOI) is responsible for telecommunications policy.¹⁸⁴ In January 2006, Poland established the Office of Electronic Communications (UKE), which is the national regulatory authority for the telecommunications sector.¹⁸⁵ The UKE is charged with: analyzing the Polish market to confirm that there is no distortion or restriction of competition; ensuring efficient investment in infrastructure and promoting innovation; encouraging efficient use and effective management of radio frequencies and numbering; supervising orbital and numbering resources; licensing operators; enforcing compliance with electromagnetic compatibility requirements; and cooperating with the Polish Office for Competition and Consumers Protection in matters related to the enforcement of the rights of citizens using postal and telecommunications services.

In April, 2009, the government announced plans to direct 300 million Euro (US\$397 million) for broadband expansion, with a goal of making broadband available to 90% of the households and 100% of businesses and public institutions by 2013.

Competition: Telekomunikacja Polska (TP), the incumbent wireline carrier, holds approximately 40% of the broadband market, while cable operators account for another 25%. The leading broadband cable providers include UPC Polska, Vectra, Aster City, and Multimedia Polska. Other competitors in the broadband market include resellers, Netia, Dialog, Exatel, Tele2, NOM, GTS, and Energis; and alternative infrastructure providers Netia and Telefonía Dialog.

Other Media: AM (14); FM (63); TV (75).

Topography: Poland occupies an area slightly smaller than New Mexico. Poland's terrain is mostly flat plains with mountains along the southern border.

¹⁸³ In Appendix C, we include price information for Ventelo and Get, two competitive entrants offering broadband services. See Ventelo website, available at <http://www.ventelo.no/om-ventelo/fakta-om-ventelo/eierforhold.html> and Get website, available at <http://get.no/web/omGet>.

¹⁸⁴ See MOI, available at <http://www.en.mi.gov.pl/>.

¹⁸⁵ See UKE, available at http://en.uke.gov.pl/ukeen/index.jsp?place=Menu07&news_cat_id=79&layout=0.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
37.9	4,307,992	11.3	0.1	3.7	7.4	0.1

29. Portugal

Regulation: The Autoridade Nacional de Comunicações (ANACOM) is the independent regulator.¹⁸⁶ ANACOM has regulatory authority over postal and electronic communications. The Competition Authority, an independent and financially autonomous institution, is empowered to deal with competition issues in all sectors of the economy, including regulated sectors such as electronic communications.

In April 2006, ANACOM set maximum charges for local-loop unbundling offers, and in June 2007, it approved a decision regarding collocation procedures.

In January 2009, Portugal's government announced an 800 million Euro (US\$1.1 billion) credit line for the rollout of next-generation broadband networks in the country. This is the first step in a 2.18 billion Euro (US\$3 billion) plan announced in December 2008 to boost the country's economy.¹⁸⁷

Competition: Portugal's leading broadband service providers include Portugal Telecom (PT), ZON Multimedia/TV Cabo, Sonaecom Group, and Cabovisão.¹⁸⁸ In the third quarter of 2009, Portugal Telecom held 43.3% of broadband customer shares, ZON Multimedia/TV Cabo held 32.3%, Sonaecom held 10.4%, and Cabovisão held 8%.¹⁸⁹

Other Media: AM (2); FM (63); TV (42).

Topography: Portugal occupies an area slightly smaller than Indiana. The terrain is mountainous north of the Tagus River with rolling plains in the south.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
39.3	1,809,354	17.0	0.1	6.7	10.0	0.2

30. Romania

Regulation: The policymaker is the Ministry of Communications and Information Society.¹⁹⁰ The Romanian telecommunications regulator is the National Authority for Management and Regulation in Communications (ANCOM, previously ANC).¹⁹¹

¹⁸⁶ See ANACOM, available at http://www.anacom.pt/render.jsp?categoryName=CATEGORY_ROOT&languageId=1.

¹⁸⁷ See <https://www.communicationsdirectnews.com/do.php/140/33928?199>.

¹⁸⁸ See ANACOM, available at <http://www.anacom.pt/render.jsp?contentId=996599>.

¹⁸⁹ *Id.*

¹⁹⁰ See Ministry, available at <http://www.mcsi.ro/>.

¹⁹¹ See ANCOM, available at <http://www.anrcti.ro/>.

The Ministry of Communications and Information Society issued a broadband strategy in 2009, which called for the installation of 500 hotspots all over the country.¹⁹² The “Digital Romania - eStrategy for an Information Society” initiative and the National Broadband Strategy are the cornerstones of Romania’s ICT efforts.¹⁹³ Among Romania’s priorities are e-government and projects for education, health, culture and tourism and a portal to integrate all cultural, tourist, historical, geographical, religious and territorial administrative information.¹⁹⁴

Competition: Romtelecom, the incumbent wireline carrier, is the largest competitor in the broadband market, holding approximately 25% of the market. Broadband competitors include broadband cable providers, UPC Romania, RCS&RDS; resellers, PCNet, EUfonica; and alternative service providers, RCS&RDS and Atlas Telecom.

Other Media: Radio: (698),¹⁹⁵ TV (623).

Topography: Romania occupies an area slightly smaller than Oregon. The central Transylvanian Basin is separated from the Moldavian Plateau in the east by the Eastern Carpathian Mountains, and it is separated from the Walachian Plain in the south by the Transylvanian Alps.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
Data N/A	2,510,000 ¹⁹⁶	11.75 ¹⁹⁷	Data N/A	Data N/A	Data N/A	Data N/A

31. Singapore

Regulation: The Ministry of Information, Communications and the Arts (MICA) develops policy on information technology and telecommunications, as well as the arts. MICA’s mission is to maintain the “Singaporean identity” by developing and promoting the arts, culture, design, media, and information technology.

The Infocomm Development Agency (IDA) is Singapore’s telecommunications regulator. Its duties include licensing, industry regulation, information security, and developing necessary infrastructure for e-commerce, multimedia, content hosting, and other services. IDA represents Singapore in the Asia-Pacific Economic Cooperation (APEC) Telecommunications and Information Working Group.

In 2006, Singapore launched Intelligent Nation 2015 (iN2015), a 10-year plan for ICT development. Under this plan, Singapore is deploying a seamless next generation broadband network with both a wireline and a wireless part. The wireline portion is an ultra high-speed, all-fiber network that will provide access speeds of 1 Gbps and more to all physical addresses in Singapore, and is expected to reach 95% of homes and offices by 2012. The network will be wireline and wireless, and open to all service

¹⁹² [http://www.ecomunitate.ro/en/Internet_gratuit_pentru_zeci_de_mii_de_galateni_\(17450\).html](http://www.ecomunitate.ro/en/Internet_gratuit_pentru_zeci_de_mii_de_galateni_(17450).html).

¹⁹³ See Connect-World, available at http://www.connect-world.com/articles/recent_article.php?oid=Europe_II_2009_02.

¹⁹⁴ *Id.*

¹⁹⁵ The majority of stations in Romania are FM. See generally http://news.bbc.co.uk/2/hi/europe/country_profiles/1057466.stm.

¹⁹⁶ ITU Statistics Database.

¹⁹⁷ *Id.*

providers, competing with the two facilities-based operators, SingTel (incumbent and majority State-owned) and StarHub.¹⁹⁸

Competition: SingTel and StarHub are the leading competitors in the broadband market. SingTel had 495,000 retail broadband subscribers, representing 51% of the country's broadband subscriber base as of the end of 2008. StarHub, a major cable broadband service provider, had 373,000 broadband subscribers with a market share of 38%. StarHub is the leading cable broadband service and alternative infrastructure service provider, while PacNet is the leading reseller of broadband Internet services.

Other Media: AM (0); FM (19); TV (1)¹⁹⁹

Topography: Singapore occupies an area that is slightly more than 3.5 times the size of Washington, D.C. The terrain consists of lowland and a gently undulating central plateau, which contains a water catchment area and nature preserve.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
Data N/A	1,003,100 ²⁰⁰	21.74 ²⁰¹	Data N/A	Data N/A	Data N/A	Data N/A

32. Slovak Republic

Regulation: The Ministry of Transport, Posts and Telecommunications (MTPT) sets policy and controls the government's ownership share in Slovak Telecom, the incumbent wireline carrier.²⁰² The Telecommunications Regulatory Authority of the Slovak Republic (Telekomunikačný úrad Slovenskej republiky or TÚSR) is the independent regulator.²⁰³ The TÚSR implements the Act on Electronic Communications, a law that entered into force in January 2004.

Adopted in 2004, the National Strategy for the Broadband Access to Services of the Information Society in the Slovak Republic describes broadband availability in the Slovak Republic and sets a goal to achieve the level enjoyed by developed EU nations within five to eight years. Steps to reach that goal include legislative changes, efficient use of spectrum, completing a digital television transition by 2012, and state support of broadband access development.²⁰⁴

Competition: Slovak Telekom controls over 90% of the DSL market. Other competitors include broadband cable providers, UPC Slovakia, Satro; resellers, GTS, Dial Telecom, Slovanet, and Swan; alternative infrastructure providers, Orange, Slovanet, Slovenkse Elektarne, Zeleznicne Telekomunikacie, Slovensky Plynarensky Priemysel, and Swan; and fixed wireless access providers, GTS Nextra, Slovanet and Swan.

¹⁹⁸ See <http://www.ida.gov.sg/Infrastructure/20060919190208.aspx>.

¹⁹⁹ Government-owned MediaCorp is Singapore's only terrestrial broadcaster, with eight television channels providing programming in several languages. See <http://www.corporate.mediacorp.sg/tv/>.

²⁰⁰ ITU Statistics Database.

²⁰¹ *Id.*

²⁰² See MPTP, available at <http://www.telecom.gov.sk/index/index.php?lang=en>.

²⁰³ See TÚSR, available at <http://www.teleoff.gov.sk/index.php?ID=9>.

²⁰⁴ See <http://www.telecom.gov.sk/index/index.php?ids=8811&lang=en>.

Other Media: AM (1); FM (22); TV (37).

Topography: The Slovak Republic occupies an area about twice the size of New Hampshire. The terrain consists of rugged mountains in the central and northern region and lowlands in the south.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
35.3	680,351	12.6	2.7	1.3	6.6	2.0

33. Slovenia

Regulation: Under the auspices of the Ministry of Economy, the Post and Electronic Communications Agency (Agencija za pošto in elektronske komunikacije or APEK) was created in 2004 as an independent regulatory body that regulates electronic communications, postal services and radio and television programs.²⁰⁵

Slovenia's "Strategy of the Development of Information Society" was initially created in 2007 in accordance with the European initiative i2010.²⁰⁶ The strategy was revised in 2008, and commits the government of Slovenia to an investment of over 15 million Euro (USD\$20.4 million) over the next year, with a goal of extending broadband (at least 1 Mbps) to households and public institutions by the end of 2010.²⁰⁷

Competition: Telekom Slovenije, the incumbent wireline carrier, is the leading competitor in the broadband market, holding 49.1% of the market as of the end of 2008. T-2, a broadband service provider, follows with 18.2%. Amis, UPC, and Tus Telekom, also broadband service providers, all held less than 10% of the broadband market. Broadband competitors include broadband cable service providers, UPC Telemach, Ljubljanski, Kabel; alternative infrastructure providers, T-2; and reseller, T-2. At the end of 2008, competitors provide service to 58,200 subscribers with unbundled loops and 14,700 subscribers with bitstream access.²⁰⁸ Providers used FTTH for 27,100 subscribers.²⁰⁹

Other Media: AM (10), FM (230), TV (31).

Topography: Slovenia occupies an area slightly smaller than New Jersey. The terrain consists of a short coastal strip on the Adriatic, an alpine mountain region adjacent to Italy and Austria, and a mix of mountains and valleys with numerous rivers to the east.

²⁰⁵ See APEK, available at <http://www.apek.si/en/strategy>.

²⁰⁶ Government of the Republic of Slovenia, Development Strategy for the Information Society in the Republic of Slovenia si2010 (June 2007) available at http://mvzt.gov.si/fileadmin/mvzt.gov.si/pageuploads/pdf/informacijska_druzba/61405-EN_Strategija_razvoja_informacijske_druzbe_v_RS_si2010.pdf.

²⁰⁷ CESInfo, DICE Report, available at http://www.cesifo-group.de/portal/page/portal/DICE_Content/INFRASTRUCTURE/COMMUNICATION_NETWORKS/Cable%20Networks/dicereport309-db1.pdf.

²⁰⁸ APEK, Annual Report 2009, 2-13, available at http://www.apek.si/datoteke/File/2009/EN/Annual_Report_2008_web1_090723.pdf.

²⁰⁹ *Id.*

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
Data N/A	426,600 ²¹⁰	21.17 ²¹¹	Data N/A	Data N/A	Data N/A	Data N/A

34. Spain

Regulation: The Secretary of Telecommunications in the Ministry of Industry, Tourism and Trade is responsible for proposing and carrying out government policy in the areas of telecommunications and audiovisual media. Spain's telecommunications market is regulated by the Comisión del Mercado de las Telecomunicaciones (CMT), Spain's independent regulator. CMT was created by statute in 1997 to adjudicate disputes between operators and service providers, promote competition in the ICT market, and grant licenses to domestic and foreign telecommunications companies.²¹²

In November 2009, the Spanish government announced that Spanish citizens will have a legal right starting in 2011 to buy broadband Internet service of at least 1 Mbps at a regulated price wherever they live.²¹³ The goals of Spain's "Avanza Plan" include: increasing the diffusion of Internet services in every Spanish community, closing the digital divide in order to improve the quality of life of its citizens, and increasing the nation's public expenditure in ICT to 7% of Spain's GDP by 2010.²¹⁴

Competition: Telefónica, the incumbent wireline carrier, leads the broadband market with a market share of around 57% at end of 2008. Its largest competitors are Ono and France Telecom's Orange, followed by Vodafone and Jazztel. Broadband services are provided through broadband cable providers, Ono, R Cable, Euskaltel, Telecable; and resellers, Orange/Ya.com, Jazztel, Vodafone/Tele2.

Other Media: AM (18); FM (250); TV (379).

Topography: Spain occupies an area that is slightly more than twice the size of Oregon. The terrain consists of a large, flat to dissected plateau surrounded by rugged hills with the Pyrenees in the north.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
44.6	9,477,901	20.8	0.1	4.0	16.6	0.2

35. Sweden

Regulation: The Post-och Telestyrelsen (PTS) is Sweden's independent telecommunications regulator.²¹⁵ Organizationally, it falls within the Ministry of Enterprise, Energy and Communications (MEEC),²¹⁶ which is also responsible for the government's stake in TeliaSonera, the incumbent fixed

²¹⁰ ITU Statistics Database.

²¹¹ *Id.*

²¹² CMT, Creation and Objectives, available at http://www.cmt.es/cmt_ptl_ext/SelectOption.do?nav=presentacion.

²¹³ Reuters, available at <http://www.reuters.com/article/idUSLH61554320091117>.

²¹⁴ OECD, Information on Society Strategies: From Design to Implementation, The Case of Spain's Plan Avanza, available at <http://www.planavanza.es>.

²¹⁵ See PTS, available at <http://www.pts.se/en-gb/>.

²¹⁶ See MEEC, available at <http://www.sweden.gov.se/sb/d/2067>.

telephony operator. Under the national telecommunications law, however, the MEEC is barred from any involvement with or direct management of the incumbent operator. Further, the Swedish Constitution safeguards the autonomy and independence of PTS by prohibiting any interference by Ministries in PTS's day-to-day activities. PTS is governed by a nine-member Board of Directors, and headed by a Director-General.

Sweden published its Broadband Strategy for Sweden in November 2009.²¹⁷ Sweden's goal is for 40% of all households and businesses to have access to broadband at a minimum speed of 100 Mbps by 2015 and for 90% to have access to that speed by 2020.

Competition: TeliaSonera is the leading competitor in the broadband market, holding 40% of the market share in 2008. The other competitors include Com hem (cable modem), B2 Bredband (resale), Tele2, Glocalnet, UPC, Telenor and Hi3G Access.

Other Media: AM (1),²¹⁸ FM (124); TV (252).

Topography: Sweden occupies an area that is slightly larger than California. The terrain is mostly flat or gently rolling lowlands with mountains in the west.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
70.7	2,915,000	31.6	6.7	6.3	18.5	0.1

36. Taiwan

Regulation: The Ministry of Transportation and Communications (MOTC) is the policy-maker for telecommunications.²¹⁹ MOTC is responsible for devising an integrated telecommunications development plan, supervising telecommunications enterprises, and promoting the development of an information society to enhance the public welfare. In 2006, Taiwan created the National Communications Commission (NCC), an independent regulator for telecommunications and broadcasting.²²⁰

Over the past ten years, Taiwan has pursued a series of ICT infrastructure development projects, beginning with the E-Government initiative in 2000, through the E-Taiwan plan in 2002, and continuing with the ongoing National Information and Communications Initiative (NICI), or M-Taiwan, in 2005. M-Taiwan is intended to expand broadband across Taiwan and provide fiber-to-the-home in major urban areas. M-Taiwan offered computer equipment and Internet access to households in rural and mountainous areas and established "digital opportunity centers" in 168 rural townships. In 2008, Taiwan adopted the U-Taiwan and I-Taiwan plans to establish an "Intelligent Taiwan" with an advanced

²¹⁷ See <http://www.sweden.gov.se/sb/d/2025>

²¹⁸ See <http://www.sr.se/sida/artikel.aspx?ProgramId=2438&artikel=733463> (Swedish Radio broadcasts on the AM dial via AM, satellite and Internet. Languages for international broadcasting are Swedish, English, German, Russian and Belarusian.)

²¹⁹ See MOTC, available at <http://www.motc.gov.tw/mocwebGIP/wSite/mp?mp=2>

²²⁰ See NCC, Introduction of the National Communications Commission, available at http://www.ncc.tw/english/content.aspx?site_content_sn=2&is_history=0. The NCC was authorized by the Fundamental Communications Basic Act of 2004 and the National Communications Commission Organization Act of 2005.

“ubiquitous network society” and to fund education, ICT equipment and applications and IT-related cultural projects.

Competition: Chunghwa Telecom, the incumbent wireline carrier, is the leading competitor in the broadband market, with 3.521 million retail broadband subscribers as of the end of 2008. Other competitors include Seednet, Asia Pacific Broadband Telecom (cable), and New Century Infocomm (cable).

Other Media: AM (21); FM (143); TV (76).

Topography: Taiwan occupies an area slightly smaller than Maryland and Delaware combined. Two-thirds of the eastern region is mostly rugged mountains and the western region consists of flat to gently rolling plains.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
Data N/A	5,024,400 ²²¹	21.81 ²²²	Data N/A	Data N/A	Data N/A	Data N/A

37. United Kingdom

Regulation: Ofcom was established as a corporate body by the Office of Communications Act 2002.²²³ Ofcom is the regulator for the UK communications industries, with responsibilities across television, radio, telecommunications and wireless communications services.²²⁴ Ofcom’s responsibilities include managing spectrum and ensuring that a “wide range of electronic communications services – including high speed data services – is available throughout the UK.”²²⁵

The government’s “Digital Britain: Final Report,” released in June 2009, outlines the nation’s broadband strategy.²²⁶ In the report, the government committed to providing all British households with broadband access at a minimum speed of 2 Mbps by 2012. The network will consist primarily of DSL lines and fiber to the street cabinet, supplemented by mobile broadband and possible satellite infill for remote areas. Ofcom has also worked to encourage investment and competition in “super-fast broadband.”²²⁷ Key applications include digital delivery of public services, on-line availability of government information, telemedicine, education, and finances.

Competition: The lead broadband service provider in 2008 was BT Retail with 26.4% of the retail broadband market. Other competitors include Virgin Media, Carphone Warehouse (unbundled loop),

²²¹ ITU Statistics Database.

²²² *Id.*

²²³ Office of Communications Act 2002, 2002 Chapter 11, available at http://www.opsi.gov.uk/acts/acts2002/ukpga_20020011_en_1.

²²⁴ See Ofcom, Statutory Duties and Regulatory Principles, available at <http://www.ofcom.org.uk/about/sdrp/>.

²²⁵ *Id.*

²²⁶ Digital Britain: The Final Report, (June 16, 2009), available at http://www.culture.gov.uk/what_we_do/broadcasting/6216.aspx.

²²⁷ Ofcom, Delivering Super-fast Broadband in the UK: Promoting Investment and Competition, (Mar. 3, 2009), available at http://www.ofcom.org.uk/consult/condocs/nga_future_broadband/statement/statement.pdf.

Tiscali (unbundled loop), BskyB, Orange (unbundled loop), Vodafone (resale), Post Office (resale) and many smaller ISPs.

Other Media: AM (206); FM (696); TV (940).

Topography: The United Kingdom occupies an area that is slightly smaller than Oregon. The terrain consists of mostly rugged hills and low mountains with level to rolling plains in the east and southeast.

Access per 100 people	Total Subscribers	Subscriptions per 100 people				
		Total	Fiber	Cable	DSL	Other
61.5	17,742,676	28.9	0.0	6.1	22.8	0.1