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Telecommunication indicators in the Eurostat area

Item IV.2 of the agenda

TELECOMMUNICATION
INDICATORS
IN THE EUROSTAT
AREA
2000



International Telecommunication Union

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Introduction

The purpose of this document is to provide the latest communication statistics available in the EUROSTAT area. The convergence of telecommunications, broadcasting and computing and the growing importance attached to the development of advanced information infrastructures was also identified as an important reason to regularly disseminate statistics showing progress in this area.

The 18 economies covered in this document include the members of the EUROSTAT. Together they account for 7 per cent of the world's population, 29 per cent of Gross Domestic Product and 24 per cent of telephone lines.

The data cover leading indicators for telecommunications, broadcasting and computers. The statistics include infrastructural and market data (main telephone lines, digital lines, mobile cellular subscribers, personal computers, internet hosts, cable television subscribers and ISDN subscribers); globalization and usage (international outgoing telephone traffic); telecommunication sector indicators (staff, investment and revenues); demographic and economic statistics (population and Gross Domestic Product).

Communications data are obtained from telecommunication ministries, regulators or operators unless otherwise noted. Data refer to the end of the calendar year except for economies that report on non-calendar year basis. These include United Kingdom (year beginning 1 April).

Entries with a dash (-) refer to zero or a quantity less than half the unit shown. Figures in italics are estimated for this report. In case of missing data, estimated totals are calculated based on historical growth rates. In some cases, 1998 data is preliminary.

1. MAIN TELEPHONE LINES IN OPERATION

Definitions

A *main line* is a telephone line connecting the subscriber's terminal equipment (e.g., telephone set, facsimile machine) to the public switched network and which has a dedicated port in the telephone exchange. This term is synonymous with the term "main station" or "Direct Exchange Line" (DEL) which are commonly used in telecommunication documents.

Some operators report *access lines* rather than main lines. Access lines include extensions on Private Automatic Branch Exchanges (PABXs) that are billed separately or that have their own telephone number.

Subscribers (e.g., customer's which are billed individually) may share the same line (e.g., party line) or use extensions from a private extension. Thus one main line could serve several subscribers. Some operators are not in a position to report main lines and report the number of subscribers. This can affect the treatment of payphones since these normally would be included as main lines.

MAIN TELEPHONE LINES (thousands)							
Economy	1980	1985	1990	1995	1996	1997	1998
Austria	2'191.00	2'729.39	3'223.16	3'796.90	3'901.60	3'969.40	3'999.00
Belgium	2'441.99	3'032.42	3'912.63	4'682.09	4'814.02	4'964.47	5'073.01
Denmark	2'225.77	2'543.29	2'911.20	3'193.41	3'251.19	3'340.56	3'495.86
Finland	1'739.00	2'189.00	2'670.00	2'810.00	2'842.00	2'861.00	2'855.00
France	15'898.00	23'030.56	28'084.92	32'400.00	32'900.00	33'700.00	34'000.00
Germany	20'431.60	25'391.80	31'887.00	42'000.00	44'100.00	45'200.00	46'530.00
Greece	2'270.41	3'116.80	3'948.65	5'162.77	5'328.79	5'430.86	5'535.52
Iceland	84.80	102.66	130.47	148.68	155.40	167.60	178.43
Ireland	483.00	703.00	983.00	1'310.00	1'390.00	1'500.00	1'600.00
Italy	13'017.00	17'396.11	22'350.00	24'845.00	25'259.00	25'698.00	25'986.12
Luxembourg	131.66	151.53	183.70	233.92	258.27	279.74	293.08
Netherlands	4'892.10	5'823.00	6'940.00	8'124.00	8'431.00	8'860.00	9'337.00
Norway	1'197.29	1'757.66	2'132.29	2'476.45	2'588.89	2'735.49	2'935.00
Portugal	989.47	1'400.42	2'379.27	3'642.89	3'821.89	4'002.48	4'116.95
Spain	7'228.80	9'340.46	12'602.60	15'095.38	15'412.79	15'854.45	16'288.61
Sweden	4'820.00	5'242.50	5'848.70	6'013.00	6'032.00	6'010.00	5'965.00
Switzerland	2'839.00	3'277.03	3'942.70	4'480.00	4'571.00	4'688.00	4'803.00
United Kingdom	18'161.00	21'175.00	25'368.00	29'411.41	30'677.76	31'879.00	32'829.00
EUROSTAT	101'041.89	128'402.61	159'498.29	189'825.90	195'735.59	201'141.04	205'820.57

Notes

Austria	Including ISDN channels.
Belgium	From 1995 including ISDN.
Finland	Telephone subscriber lines, from 1996 the basis for the compilation of the statistics is changed.
France	Including ISDN from 1995.
Germany	Only Deutsche Telekom.
Iceland	Since 1990: including PABX.
Luxembourg	From 1995 including digital lines.
Netherlands	Since 1995: Including ISDN channels.
Norway	From 1995: Including ISDN channels.
Spain	From 1995: Including ISDN channels.
Switzerland	From 1995: Including ISDN channels.
United Kingdom	Prior to 1991, BT. 1998: OFTEL estimate.

Source: ITU.

2. PERCENTAGE OF MAIN TELEPHONE LINES CONNECTED TO DIGITAL EXCHANGES

Definitions

The number of main lines connected to digital telephone exchanges. Calculated by dividing the number of main lines connected to digital exchanges by the total number of main lines. It should be made clear that this indicator does **not** measure the exchanges which are digital, inter-exchange lines which are digital or digital network termination points.

DIGITAL MAIN LINES (percentage)							
<i>Economy</i>	<i>1980</i>	<i>1985</i>	<i>1990</i>	<i>1995</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>
Austria	...	...	11.00	60.05	72.00	82.00	92.10
Belgium	0.00	2.60	37.20	66.80	73.11	77.90	
Denmark	0.00	3.70	28.00	61.00	71.00	86.00	100.00
Finland	0.10	10.70	35.10	89.80	100.00	100.00	100.00
France	7.10	44.00	75.00	90.00	93.00	96.00	97.00
Germany	...	...	12.00	56.30	84.00	100.00	100.00
Greece	0.00	0.00	0.48	37.14	42.76	47.07	74.46
Iceland	...	...	41.00	100.00	100.00	100.00	100.00
Ireland	...	...	55.00	79.00	83.00	92.00	100.00
Italy	...	...	33.00	76.60	85.10	93.90	97.90
Luxembourg	...	...	33.00	100.00	100.00	100.00	100.00
Netherlands	...	...	69.00	69.00	71.00	72.00	89.00
Norway	0.00	0.00	38.00	82.00	90.60	100.00	100.00
Portugal	0.00	0.00	30.00	70.00	79.40	88.30	97.60
Spain	...	1.80	28.40	56.70	67.40	80.80	86.25
Sweden	...	...	38.00	91.00	96.00	99.30	100.00
Switzerland	...	...	29.00	75.00	95.00	99.00	100.00
United Kingdom	0.00	1.20	46.90	87.70	92.60	100.00	100.00
EUROSTAT	...	...	38.70	72.90	84.20	92.90	96.20

Notes

Netherlands As % of total access line capacity.

United Kingdom BT.

Source: ITU.

3. CELLULAR MOBILE TELEPHONE SUBSCRIBERS

Definitions

Subscribers to an automatic public mobile telephone service which provides access to the Public Switched Telephone Network (PSTN) using cellular technology. This covers both analog and digital systems and Personal Communications Services (PCS). Does not include subscribers to public mobile data services, private trunked mobile radio, telepoint, non-cellular mobile, fixed cellular, or radio paging services.

CELLULAR SUBSCRIBERS (thousands)							
<i>Economy</i>	<i>1980</i>	<i>1985</i>	<i>1990</i>	<i>1995</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>
Austria	0.00	9.76	73.70	383.54	598.71	1'159.70	2'030.00
Belgium	0.00	0.00	42.88	235.26	478.17	974.49	1'756.29
Denmark	0.00	46.10	148.22	822.26	1'316.59	1'444.02	1'931.10
Finland	0.00	32.31	225.98	1'017.60	1'484.01	2'162.57	2'946.95
France	0.00	0.00	283.20	1'302.50	2'462.70	5'817.30	11'210.10
Germany	0.00	1.08	272.61	3'725.00	5'512.00	8'170.00	13'925.00
Greece	0.00	0.00	0.00	273.00	550.00	937.70	2'057.00
Iceland	0.00	0.00	10.01	30.88	46.81	65.37	91.47
Ireland	0.00	0.30	25.00	158.00	288.60	533.00	946.00
Italy	0.00	6.42	266.00	3'923.00	6'422.00	11'737.90	20'489.00
Luxembourg	0.00	0.04	0.82	26.84	45.00	67.21	130.50
Netherlands	0.00	4.80	79.00	539.00	1'016.00	1'717.00	3'351.00
Norway	0.00	63.08	196.83	981.31	1'261.45	1'676.76	2'107.00
Portugal	0.00	0.00	6.50	340.85	663.65	1'506.96	3'075.63
Spain	0.00	0.00	54.70	944.96	2'997.65	4'337.70	7'051.26
Sweden	0.00	73.00	461.20	2'008.00	2'492.00	3'169.00	4'108.00
Switzerland	0.00	0.00	125.05	447.17	662.71	1'044.38	1'672.30
United Kingdom	0.00	50.00	1'114.00	5'735.79	7'248.36	8'841.00	14'874.00
EUROSTAT	-	286.88	3'385.70	22'894.93	35'546.40	55'362.06	93'752.60

Source: ITU.

4. INTERNATIONAL OUTGOING TELEPHONE TRAFFIC

Definitions

Refers to total completed telephone traffic measured in minutes that originated in the specified country with a destination outside the country. The treatment of paid versus free traffic and collect and country direct services can differ.

INTERNATIONAL OUTGOING TRAFFIC (million of minutes)							
<i>Economy</i>	<i>1980</i>	<i>1985</i>	<i>1990</i>	<i>1995</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>
Austria	197.88	306.50	558.62	901.06	947.55	1'070.00	1'249.95
Belgium	287.00	415.80	731.27	1'105.72	1'220.00	1'340.00	1'460.00
Denmark	132.80	217.00	368.00	528.66	586.55	517.20	582.10
Finland	69.96	107.10	186.00	315.40	340.70	377.80	404.20
France	711.00	1'034.00	2'126.00	2'850.00	2'900.00	3'100.00	3'400.00
Germany	1'104.00	1'835.01	3'145.82	5'238.00	4'761.00	4'813.00	4'711.00
Greece	90.32	144.15	213.25	463.11	518.28	596.97	684.59
Iceland	2.10	9.40	18.74	28.91	33.00	37.69	45.16
Ireland	17.00	28.00	261.00	407.00	580.00	695.00	885.00
Italy	317.34	556.04	1'042.85	1'839.00	2'028.00	2'209.00	2'704.66
Luxembourg	51.70	80.87	150.62	232.20	248.52	287.02	293.82
Netherlands	382.90	536.40	905.00	1'458.95	1'491.30	1'535.00	1'805.00
Norway	95.23	176.26	281.22	437.00	460.00	481.00	540.00
Portugal	24.95	55.34	156.30	289.60	335.71	382.14	470.21
Spain	128.60	218.05	611.00	1'063.43	1'279.40	1'566.00	1'803.00
Sweden	215.35	343.44	631.00	875.00	945.00	1'016.00	1'205.00
Switzerland	469.20	729.90	1'332.40	1'733.00	1'835.00	1'957.00	1'901.00
United Kingdom	736.10	1'246.59	2'530.00	4'068.00	4'539.00	5'461.00	5'820.00
EUROSTAT	5'033.42	8'039.84	15'249.09	23'834.05	25'049.01	27'441.81	29'964.69

Notes

Iceland 1995: estimate.

Ireland From 1986, including traffic to the UK (estimated through 1988). Not including border traffic to Northern Ireland.

Italy Traffic direction (not accounting terms). Including traffic by operator.

Netherlands Data beginning 1992 not comparable with earlier years due to changed accounting. From 1992, data include all PSTN traffic (e.g., IDD, ISDN, VPN, etc.) and from 1996 data include mobile calls, home country direct and international freephone calls.

Sweden From 1993, ITU estimate.

Switzerland Not including transit traffic. Fixed-line traffic. 1998: Swisscom.

Source: ITU.

5. FULL-TIME TELECOMMUNICATION STAFF

Definitions

Full-time staff employed by telecommunication network operators in the country for the provision of public telecommunication services. As far as possible, staff not working principally for the provision of telecommunications services (e.g., those working in postal services or broadcast operations) are excluded.

TELECOMMUNICATION STAFF (thousands)							
<i>Economy</i>	<i>1980</i>	<i>1985</i>	<i>1990</i>	<i>1995</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>
Austria	17.00	18.24	18.42	17.38	17.22	17.60	20.05
Belgium	28.86	27.61	26.30	25.24	25.63	24.92	23.27
Denmark	12.67	17.02	17.71	16.08	16.13	17.17	17.34
Finland	20.77	20.92	20.07	16.08	16.86	17.98	19.45
France	156.40	166.79	155.81	151.45	164.72	165.04	169.10
Germany	195.00	212.36	212.21	229.70	222.00	219.20	219.70
Greece	30.20	30.57	28.09	24.58	23.81	22.74	21.93
Iceland	1.32	1.47	0.96	1.01	1.00	0.93	1.18
Ireland	19.65	16.17	13.54	11.71	11.56	11.00	12.06
Italy	104.00	109.79	117.99	101.90	100.01	94.10	92.05
Luxembourg	0.63	0.68	0.81	0.80	0.82	0.83	0.86
Netherlands	27.90	28.77	29.26	30.55	29.69	32.09	32.55
Norway	18.30	17.17	15.77	18.77	19.62	21.27	23.00
Portugal	22.80	23.21	22.97	22.04	21.60	20.68	21.43
Spain	70.61	72.09	75.35	69.57	67.22	64.11	61.11
Sweden	40.00	41.86	44.25	32.83	32.70	32.30	31.30
Switzerland	16.32	18.33	20.17	20.22	21.95	22.17	21.95
United Kingdom	246.70	235.18	226.90	145.00	142.00	149.00	155.00
EUROSTAT	1'029.12	1'058.21	1'046.57	934.89	934.52	933.11	943.29

Notes

Belgium	Until 1991: total staff including temporary and contractual personnel. From 1992, staff at 31 December.
Denmark	Only Tele Danmark A/S.
Finland	Number of permanent staff; part of the personnel working part-time. Does not include corporate personnel shared with P&T - Post. Since 1994, including part time staff.
France	Break in comparability from 1996.
Germany	From 1991, including Mannesmann. 1995: Only Deutsche Telekom.
Norway	Man-years. 1993-95: Including NetCom. 1998: estimate.
Spain	Telefónica de España, S.A. only.
Sweden	Source: SIK/Statistics Sweden.
United Kingdom	Including Vodafone and Mercury from 1992. 1998: estimate.

Source: ITU.

6. TELECOMMUNICATION REVENUES

Definitions

The revenues (turnover) received from providing telecommunication services in the country earned during the financial year under review. United States dollar values are obtained by the applying the average annual exchange rate. Data may not be strictly comparable due to a number of factors. First, it is assumed that the data relate to revenues of all PTOs providing service in the country. This is not unequivocally known and may be impossible to determine since there may be no legal requirement for all operators to provide financial information, or operators may be part of parent companies that only provide consolidated accounts. The data do not usually include revenues from cellular mobile telephone, radio paging or data services if these services are not provided by the main fixed-link operator. Second, the operators may have subsidiaries with financial activities unrelated to telecommunication services that may be included. Third, in the case of countries where posts and telecommunications are combined, a perfect allocation of revenue may not be possible. Fourth, there are definition and accounting differences among countries.

TELECOMMUNICATION REVENUES (million US\$)							
<i>Economy</i>	<i>1980</i>	<i>1985</i>	<i>1990</i>	<i>1995</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>
Austria	1'166.02	1'124.31	2'821.46	4'305.31	4'250.66	3'834.75	4'119.88
Belgium	1'289.52	1'054.55	2'693.95	4'312.72	4'576.23	4'513.07	4'942.01
Denmark	784.19	1'108.88	2'323.64	3'369.98	3'641.51	3'482.93	3'759.70
Finland	760.05	816.39	2'222.05	2'534.41	2'691.05	3'056.21	3'637.66
France	11'006.39	9'464.11	18'977.83	29'614.34	29'568.76	26'852.67	29'929.49
Germany	14'324.86	11'444.09	27'612.14	48'848.57	49'841.50	46'134.51	49'497.07
Greece	549.31	545.94	1'290.53	2'797.53	3'132.54	3'283.56	3'452.31
Iceland	42.26	52.59	84.92	132.53	155.68	152.08	168.39
Ireland	335.98	471.66	1'189.88	1'579.54	1'771.78	1'871.11	2'044.41
Italy	5'083.30	6'326.47	14'546.56	20'011.91	23'015.00	22'648.70	26'026.46
Luxembourg	73.02	55.76	194.27	300.39	317.90	305.93	335.92
Netherlands	2'312.17	1'920.99	5'298.74	8'492.83	8'587.70	8'238.74	9'764.58
Norway	847.01	1'152.80	2'336.41	3'234.34	3'590.65	3'849.92	4'030.70
Portugal	461.33	653.86	1'391.81	3'662.86	3'487.09	3'585.70	...
Spain	2'634.45	2'407.70	8'363.99	11'008.78	11'629.73	10'962.76	11'060.54
Sweden	1'739.72	1'847.11	4'987.16	4'654.47	5'139.58	4'844.99	...
Switzerland	2'102.15	2'071.10	4'893.10	8'889.17	8'468.45	6'781.51	7'215.48
United Kingdom	10'590.70	10'766.37	23'489.29	27'646.69	28'561.93	32'350.75	36'990.91
EUROSTAT	56'102.43	53'284.68	124'717.73	185'396.38	192'427.74	186'749.87	196'975.51

Source: ITU.

7. TELECOMMUNICATION INVESTMENT

Definitions

Investment refers to the annual expenditure associated with acquiring ownership of property and plant used for telecommunication services and includes land and buildings.

TELECOMMUNICATION INVESTMENT (million US\$)							
<i>Economy</i>	<i>1980</i>	<i>1985</i>	<i>1990</i>	<i>1995</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>
Austria	510.82	577.38	1'407.12	1'597.08	891.39	1'212.70	...
Belgium	591.82	370.91	834.44	1'494.10	1'101.66	1'454.69	886.06
Denmark	347.76	245.02	525.70	544.77	707.06	889.09	1'308.80
Finland	267.56	293.00	775.47	839.31	848.79	873.17	903.05
France	5'594.65	3'989.76	4'802.31	5'662.03	4'921.71	5'724.12	6'153.06
Germany	5'494.00	5'339.27	11'915.04	10'824.84	11'720.73	8'938.56	8'808.32
Greece	247.53	247.10	377.17	674.21	739.45	828.03	701.47
Iceland	10.40	9.64	14.37	30.27	26.72	28.53	47.48
Ireland	264.62	148.50	290.91	310.06	425.14	450.25	...
Italy	2'848.97	2'800.30	8'263.92	4'714.14	5'890.66	6'693.09	...
Luxembourg	24.88	10.34	60.99	78.53	156.90	79.05	100.72
Netherlands	709.26	486.60	1'484.35	1'709.66	1'605.67	1'627.15	...
Norway	500.83	416.56	438.85	809.37	727.31	786.75	...
Portugal	147.98	174.16	713.41	1'229.75	1'100.22	1'418.89	...
Spain	1'634.43	1'104.90	7'076.34	3'113.90	2'837.42	2'404.55	1'983.35
Sweden	449.41	588.21	1'062.00	1'090.97	1'014.91	758.49	...
Switzerland	667.46	738.38	2'214.94	1'824.03	1'828.48	1'635.77	900.12
United Kingdom	2'906.98	2'412.07	4'925.00	5'460.25	5'939.55	7'453.72	...
EUROSTAT	23'219.37	19'952.10	47'182.32	42'007.26	42'483.75	43'256.61	...

Source: ITU.

8. PERSONAL COMPUTERS

Definitions

Computers for personal use. Therefore does not include computers that are accessed via a terminal such as super, main frame or mini computers. Includes the family of microcomputers using Intel 80x86 microprocessors (e.g., IBM PC compatibles) and Motorola 68x microcomputers (e.g., Apple) as well as other microcomputers containing a microprocessor, monitor, keyboard and data storage. Does not include game machines, electronic calculators or personal digital assistants.

PERSONAL COMPUTERS (millions)							
<i>Economy</i>	<i>1980</i>	<i>1985</i>	<i>1990</i>	<i>1995</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>
Austria	0.50	1.30	1.40	1.70	1.90
Belgium	0.88	1.80	2.20	2.50	2.90
Denmark	0.59	1.41	1.60	1.90	2.00
Finland	0.50	1.20	1.40	1.60	1.80
France	4.00	7.80	8.80	9.50	11.30
Germany	6.50	14.60	17.10	19.60	22.90
Greece	0.18	0.35	0.37	0.47	0.55
Iceland	0.01	0.06	0.07	0.08	0.09
Ireland	0.30	0.66	0.76	0.88	1.00
Italy	2.10	4.80	5.30	6.50	10.00
Luxembourg	0.16	0.16	0.17
Netherlands	1.40	3.10	3.60	4.40	5.10
Norway	1.19	1.39	1.59	1.80
Portugal	0.26	0.55	0.67	0.74	0.81
Spain	1.10	2.40	3.10	3.80	4.30
Sweden	0.90	2.20	2.60	3.00	3.50
Switzerland	0.60	2.00	2.40	2.80	3.00
United Kingdom	6.20	11.80	12.70	14.10	15.90
EUROSTAT	26.01	57.22	65.62	75.32	89.02

Source: ITU.

9. INTERNET HOSTS

Definitions

Internet hosts refer to the number of computers in an economy that are directly linked to the worldwide Internet network. Note that Internet host computers are identified by a two digit country code or a three digit code generally reflecting the nature of the organization using the Internet computer. The number of the hosts are assigned to countries based on the country code although this does not necessarily indicate that the host is actually physically in the country.

INTERNET HOSTS (thousands)							
<i>Economy</i>	<i>1980</i>	<i>1985</i>	<i>1990</i>	<i>1995</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>
Austria	1.06	53.34	88.81	108.47	172.57
Belgium	0.00	30.62	65.06	106.81	208.67
Denmark	0.92	50.56	106.73	169.37	298.28
Finland	3.63	215.70	314.14	486.81	459.57
France	4.16	151.17	236.87	355.03	511.19
Germany	7.57	474.38	691.86	1'132.17	1'449.92
Greece	0.11	7.74	16.74	28.13	49.90
Iceland	0.02	8.31	11.54	18.52	24.79
Ireland	0.00	13.44	26.90	39.86	55.86
Italy	0.93	75.38	147.87	254.30	386.63
Luxembourg	0.00	1.88	3.52	4.74	7.74
Netherlands	5.46	171.77	270.51	391.23	625.77
Norway	3.11	84.29	150.13	292.38	318.99
Portugal	0.00	11.78	23.48	42.45	55.75
Spain	0.14	51.46	113.23	196.40	306.56
Sweden	7.74	144.84	237.83	348.61	379.46
Switzerland	7.16	80.13	132.93	189.18	245.41
United Kingdom	1.14	439.77	719.33	987.73	1'449.32
EUROSTAT	43.17	2'066.55	3'357.49	5'152.20	7'006.36

Source: ITU, RIPE.

10. CABLE TELEVISION SUBSCRIBERS

Definitions

The number of cable television subscribers. Note that some countries include Microwave Multi-point Distribution systems (MMDS) or Satellite Master Antenna Television (SMATV) connections.

CABLE TELEVISION SUBSCRIBERS (thousands)							
<i>Economy</i>	<i>1980</i>	<i>1985</i>	<i>1990</i>	<i>1995</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>
Austria	...	208.05	459.96	1'000.00	1'050.00	1'065.00	1'132.00
Belgium	2'308.25	2'815.08	3'369.60	3'628.96	3'657.65	3'686.00	3'725.19
Denmark	...	...	451.65	1'190.00	1'239.87	1'260.55	1'316.46
Finland	...	210.00	671.45	828.66	842.48	875.14	905.55
France	0.00	0.00	514.81	1'318.36	1'476.85	1'626.00	2'588.62
Germany	0.00	1'535.00	8'059.00	15'800.00	16'700.00	17'300.00	17'600.00
Greece	...	0.00	0.00	...	...	13.00	...
Iceland	...	...	...	...	...	...	...
Ireland	...	...	390.00	480.00	535.00	585.00	630.00
Italy	0.00	0.00	0.00	0.00	15.00	46.27	160.00
Luxembourg	...	...	90.00	132.00	134.90	135.00	...
Netherlands	1'063.75	2'571.56	4'363.33	5'842.00	5'800.00	5'918.00	...
Norway	...	...	476.76	677.19	664.85	705.00	...
Portugal	0.00	0.00	0.00	57.79	171.48	382.89	595.87
Spain	...	...	110.00	401.35	438.63	462.34	...
Sweden	0.00	91.03	1'482.47	1'875.00	1'900.00	1'930.00	1'960.00
Switzerland	...	1'275.51	1'864.68	2'325.00	2'418.00	2'503.25	...
United Kingdom	0.00	7.52	148.95	1'422.87	2'068.35	2'373.55	2'704.00
EUROSTAT			22'452.66	36'979.16	39'113.05	40'866.99	

Source: ITU.

11. SPECIAL TABLE: ISDN SUBSCRIBERS

Definitions

ISDN subscribers refers to the number of subscribers to the Integrated Services Digital Network. It includes both basic rate and primary rate interface subscribers. Some operators count the number of circuits available rather than subscribers. These are converted to equivalent subscriber numbers.

This table shows ISDN lines in commercial operation around the world. There are indications that ISDN usage is beginning to accelerate. This is being driven by high bandwidth demand for applications such as Internet access and video conferences.

ISDN SUBSCRIBERS (thousands)							
<i>Economy</i>	1980	1985	1990	1995	1996	1997	1998
Austria	0.00	0.00	0.00	16.31	42.02	85.70	156.60
Belgium	0.00	0.00	0.21	28.07	54.65	98.55	184.70
Denmark	0.00	0.00	0.00	14.08	29.86	58.34	117.00
Finland	0.00	0.00	0.00	6.42	28.98	57.86	99.69
France	0.00	0.00	6.60	284.00	443.83	701.02	1'540.01
Germany	0.00	0.00	16.30	961.61	1'945.00	2'887.00	4'066.90
Greece	0.00	0.00	0.00	0.00	0.98	1.93	3.71
Iceland	0.00	0.00	0.00	0.00	0.77	3.62	7.72
Ireland	0.00	0.00	0.00	0.00	0.00	5.82	9.77
Italy	0.00	0.00	0.00	49.06	109.56	289.70	516.34
Luxembourg	0.00	0.00	0.00	1.66	3.91	10.33	18.38
Netherlands	0.00	0.00	0.00	23.70	165.15	308.30	712.22
Norway	0.00	0.00	0.00	12.31	43.99	149.95	...
Portugal	0.00	0.00	0.00	7.89	19.73	47.85	90.35
Spain	0.00	0.00	0.00	10.83	35.41	85.64	182.24
Sweden	0.00	0.00	0.00	16.95	52.89	71.58	122.62
Switzerland	0.00	0.00	0.37	69.46	125.81	226.13	334.00
United Kingdom	0.00	0.00	2.00	117.50	145.04	251.00	398.62
EUROSTAT	-	-	25.48	1'619.84	3'247.57	5'340.29	8'560.87

Source: ITU.

A. POPULATION

Definitions

Total population is based on the de facto definition of population, which counts all residents regardless of legal status or citizenship. Refugees not permanently settled in the country of asylum are generally considered to be part of the population of their country of origin.

POPULATION (thousands)							
<i>Economy</i>	<i>1980</i>	<i>1985</i>	<i>1990</i>	<i>1995</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>
Austria	7'549.00	7'558.00	7'718.00	8'047.00	8'059.00	8'071.00	8'140.00
Belgium	9'847.00	9'858.00	9'967.00	10'140.00	10'159.00	10'188.00	10'141.00
Denmark	5'125.00	5'114.00	5'135.41	5'215.72	5'251.03	5'275.12	5'299.30
Finland	4'780.00	4'902.00	4'998.00	5'177.00	5'132.30	5'147.00	5'160.00
France	53'880.00	55'284.00	56'735.10	58'139.10	58'374.80	59'029.00	59'683.00
Germany	61'566.00	61'024.00	72'336.99	81'817.50	82'012.20	82'057.40	82'037.00
Greece	9'642.00	9'934.00	10'160.00	10'450.00	10'475.00	10'522.00	10'600.00
Iceland	228.00	241.00	255.71	267.81	269.73	272.86	276.00
Ireland	3'401.00	3'540.00	3'503.00	3'605.78	3'626.09	3'646.50	3'681.00
Italy	56'416.00	57'128.00	57'660.00	57'333.00	57'380.00	57'367.60	57'355.30
Luxembourg	364.00	367.00	381.85	408.28	412.80	418.30	423.70
Netherlands	14'150.00	14'491.00	14'951.00	15'500.00	15'600.00	15'642.07	15'744.64
Norway	4'087.00	4'153.00	4'241.47	4'359.18	4'381.64	4'404.10	4'446.00
Portugal	9'272.00	9'640.00	9'808.00	9'920.76	9'934.11	9'944.75	9'957.30
Spain	37'386.00	38'505.00	39'887.14	39'209.71	39'270.31	39'323.32	39'371.10
Sweden	8'311.00	8'350.00	8'587.35	8'829.00	8'842.51	8'847.59	8'854.32
Switzerland	6'385.00	6'533.00	6'873.69	7'062.35	7'081.35	7'096.47	7'123.54
United Kingdom	56'330.00	56'618.00	57'560.00	58'533.00	58'780.00	58'863.00	58'946.00
EUROSTAT	348'719.00	353'240.00	370'759.71	384'015.19	385'041.87	386'116.08	387'239.20

Source: ITU, UN.

B. GROSS DOMESTIC PRODUCT

Definitions

GDP measures the total output of goods and services for final use occurring within the domestic territory of a given country, regardless of the allocation to domestic and foreign claims.

GROSS DOMESTIC PRODUCT (million US\$)							
<i>Economy</i>	<i>1980</i>	<i>1985</i>	<i>1990</i>	<i>1995</i>	<i>1996</i>	<i>1997</i>	<i>1998</i>
Austria	76'882.36	65'172.79	159'498.68	230'991.42	228'084.56	206'024.98	211'861.22
Belgium	118'020.31	79'840.72	196'810.11	275'746.27	268'204.06	243'529.50	250'392.57
Denmark	66'321.15	58'047.57	133'349.49	180'058.55	183'667.03	169'251.27	174'104.58
Finland	51'636.73	53'567.60	136'262.59	128'560.93	127'906.22	121'909.70	128'368.29
France	664'527.95	523'109.98	1'195'430.92	1'535'009.52	1'538'793.86	1'394'126.82	1'451'716.25
Germany	809'702.99	619'286.68	1'503'341.53	2'414'235.87	2'352'518.99	2'102'753.08	2'150'480.20
Greece	40'146.75	33'433.36	82'914.44	117'565.40	124'360.65	120'933.28	121'512.95
Iceland	3'269.70	2'890.91	6'252.16	6'979.97	7'315.10	7'474.14	8'254.62
Ireland	19'221.15	18'805.50	44'942.15	65'750.00	72'332.05	78'561.03	84'9583.49
Italy	452'646.38	424'512.13	1'093'982.14	1'088'014.83	1'213'649.18	1'145'381.95	...
Luxembourg	4'545.67	3'456.75	10'743.25	17'598.20	17'644.62	16'409.59	17'385.13
Netherlands	172'290.74	128'078.89	283'525.54	395'477.88	392'549.97	360'483.17	...
Norway	57'713.30	58'182.97	115'448.08	146'559.10	158'151.95	153'361.89	145'892.04
Portugal	25'090.91	20'681.64	69'131.91	104'573.49	108'974.74	101'866.96	106'858.81
Spain	211'542.21	165'844.63	491'957.18	559'479.99	580'852.98	531'274.33	...
Sweden	125'544.68	100'720.71	229'748.09	231'272.78	251'744.71	227'756.75	226'490.90
Switzerland	101'689.56	92'775.74	228'404.84	307'529.61	295'145.63	255'012.75	...
United Kingdom	537'751.16	457'216.94	984'139.29	1'110'662.46	1'157'782.57	1'287'776.10	...
EUROSTAT	3'538'543.70	2'905'625.52	6'965'882.39	8'916'066.25	9'079'678.86	8'523'887.28	

Source: ITU, IMF.

Data sources

Austria	Post- und Telekom Austria (PTA).
Belgium	Belgacom.
Denmark	National Telecom Agency.
Finland	Ministry of Transport and Communications.
France	Ministère de l'Industrie, des Postes et Télécommunications et du Commerce Extérieur, France Télécom.
Germany	Bundesamt für Post und Telekommunikation (BAPT)
Greece	Hellenic Telecommunication Organization (OTE)
Iceland	Iceland Telecom Ltd. (PTI).
Ireland	Telecom Eireann.
Italy	Telecom Italia.
Luxembourg	Entreprise des Postes et Télécommunications.
Netherlands	PTT Telecom Netherlands, Libertel.
Norway	Norwegian Posts and Telecommunications Authority (NPTA).
Portugal	Instituto das Comunicações de Portugal (ICP).
Spain	Telefónica de España.
Sweden	Telia, Netcom, Europolitan.
Switzerland	Swisscom.
United Kingdom	Office of Telecommunications (OfTel).

Other publications

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