Sources Appendix

Source Appendix 1: Source description of gross fixed capital formation series
Source Appendix 2: Other data sources
**Source Appendix 1:**
Source description of gross fixed capital formation series

**Current Prices**
**Austria**

*Office and computer equipment*
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

*Communication equipment*
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

*Non-ICT equipment*
Sources: Derived from Total equipment, Office and computer equipment and communication equipment.
Notes:

*Total equipment*

*Transport equipment*

*Non-residential structures*
Notes:

*Residential structures*
Notes:

*Software*
Sources: Official series for investment in software 1976-2003 from Statistik Austria.
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.
Total GFCE
Notes:

Belgium
Office and computer equipment

Communication equipment

Non-ICT equipment
Sources: Derived from Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment

Transport equipment

Non-residential structures

Residential structures
Notes:

**Software**
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

**Total GFCF**
Notes:

**Denmark**
**Office and computer equipment**
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

**Communication equipment**
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

**Non-ICT equipment**
Sources: Derived from Total equipment, Office and computer equipment and communication equipment.
Notes:

**Total equipment**

**Transport equipment**

**Non-residential structures**
Residential structures

Software
Sources: Official series for 1966-2004 from Danmarks Statistikbank.
Notes:

Total GFCF
Notes:

Finland
Office and computer equipment
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Communication equipment
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Non-ICT equipment
Sources: Derived from Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment
Notes:

Transport equipment
Notes:

Non-residential structures
Notes:

Residential structures
Notes:

**Software**
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003. Software in the Use tables includes own-account software.

**Total GFCF**
Notes:

**France:**
**Office and computer equipment**
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

**Communication equipment**
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

**Non-ICT equipment**
Sources: derived from Total equipment, Office and computer equipment and Communication equipment.
Notes:

**Total equipment**

**Transport equipment**

**Non-residential structures**
Notes:
Residential structures
Notes:

Software
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Total GFCF
Notes:

Germany
Office and computer equipment
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Communication equipment
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Non-ICT equipment
Sources: Derived from Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment

Transport equipment

Non-residential structures
Notes:
Residential structures
Notes:

Software
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Total GFCF
Notes:

Greece
Office and computer equipment
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Communication equipment
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Non-ICT equipment
Sources: Derived from Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment

Transport equipment

Non-residential structures
Notes:
Residential structures
Notes:

Software
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Total GFCF
Notes:

Ireland
Office and Computer Equipment
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Communication equipment
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Non-ICT equipment
Sources: Derived from Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment

Transport equipment

Non-residential structures
Notes:

Residential structures
Notes:

Software
Sources: Official series from CSO for 1990-2003, 1980-1989 extrapolated from 1980 with trend in estimations based on average ratio of software to office and computer equipment for Denmark, France, Italy, Spain and UK applied to investment in office and computer equipment.
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Total GFCF
Notes:

Italy
Office and Computer Equipment
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Communication Equipment
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Non-ICT equipment
Sources: Derived from Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment
Transport equipment

Non-residential structures
Notes:

Residential structures
Notes:

Software
Sources: 1982-2003: series from Istat Contabilità nazionale, extrapolated with application of ratio of software to office and computer equipment for Denmark, France, Italy, Spain and UK to investment in office and computer equipment for 1980-1981.
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Total GFCF
Notes:

Luxembourg
Office and computer equipment
Sources: 1985-2003: Official series from STATEC.
Notes: 1980-1985 is extrapolated with the adjusted trend in total equipment. 2004 is derived from Total equipment with average shares of 2002 and 2003.

Communication equipment
Sources: 1985-2003: Official series from STATEC.
Notes: 1980-1985 is extrapolated with the trend in total equipment. 2004 is derived from Total equipment with average shares of 2002 and 2003.

Non-ICT equipment
Sources: Derived from Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment
Notes:

**Transport equipment**
Notes: 1985 showed a negative investment. Because this causes problems in our calculations, this value has been set at 0.

**Non-residential structures**

**Residential structures**

**Software**
Sources: Estimations based on average ratio of software to office and computer equipment for Denmark, France, Germany, Italy, Spain and UK applied to investment in office and computer equipment for 1985-2003.
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

**Total GFCF**
Notes:

**Netherlands**

**Office and computer equipment**
Sources: Official series for 1987-2003 from CBS Use tables; 1969-1986 extrapolated with the investment serie in computers from *CBS Statline*.
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

**Communication equipment**
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.
Non-ICT equipment
Sources: Derived from Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment

Transport equipment

Non-residential structures

Residential structures

Software

Total GFCF

Portugal
Office and computer equipment

Communication equipment

Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Non-ICT equipment
Sources: Derived from Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment

Transport equipment
Notes: 1976 derived from Total GFCF with average shares of 1977 and 1978.

Non-residential structures

Residential structures

Software
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Total GFCF
Notes:
Spain

**Office and computer equipment**

**Communication equipment**

**Non-ICT equipment**
Sources: Derived from Total equipment, Office and computer equipment and communication equipment.
Notes:

**Total equipment**

**Transport equipment**

**Non-residential structures**

**Residential structures**
Software
Sources: 1964-2002: FundaciónBBVA-Ivie. 2003 extrapolated with trend of estimated series based on application of average ratio of software to office and computer equipment for other countries to investment in office and computer equipment.
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Total GFCF
Notes:

Sweden
Office and computer equipment
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Communication equipment
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Non-ICT equipment
Sources: Derived from Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment

Transport equipment

Non-residential structures

Notes:

*Residential structures*

Notes:

*Software*
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

*Total GFCF*
Notes:

*UK*
*Office and computer equipment*
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

*Communication equipment*
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

*Non-ICT equipment*
Sources: Derived from Total equipment, Office and computer equipment and communication equipment.
Notes:

*Total equipment*

*Transport equipment*
Non-residential structures
Notes:

Residential structures
Notes:

Software
Notes: 2004 is derived from Total equipment with average shares of 2002 and 2003.

Total GFCF
Notes:

USA
Office and computer equipment
Notes:

Communication equipment
Notes:

Non-ICT equipment
Notes:

Total equipment
Notes:

Transport equipment
Notes:
Non-residential structures
Notes:

Residential structures
Notes:

Software
Notes:

Total GFCF
Notes:
**Prices**

**Austria**

*Office and computer equipment*
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

*Communication equipment*
Sources: Derived from Bureau of Economic Analysis (BEA) communication deflators and GDP series from OECD national accounts.
Notes:

*Non-ICT equipment*
Sources: Derived from deflators for Total equipment, Office and computer equipment and communication equipment.
Notes:

*Total equipment*
Sources: See current.
Notes: See current.

*Transport equipment*
Sources: See current.
Notes: See current.

*Non-residential structures*
Sources: See current.
Notes:

*Residential structures*
Sources: See current.
Notes:

*Software*
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

**Belgium**

*Office and computer equipment*
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

*Communication equipment*
Sources: Derived from Bureau of Economic Analysis (BEA) communication deflators and GDP series from OECD national accounts.
Notes:

*Non-ICT equipment*
Sources: Derived from deflators for Total equipment, Office and computer equipment and communication equipment.
Notes:
**Total equipment**
Sources: See current.
Notes: See current.

**Transport equipment**
Sources: See current.
Notes: See current.

**Non-residential structures**
Sources: See current.
Notes:

**Residential structures**
Sources: See current.
Notes:

**Software**
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

**Denmark**
**Office and computer equipment**
Sources: Derived from Bureau of Economic Analysis (BEA) Non-IT deflators and constant ICT and total equipment data from the same source as the current figures.
Notes:

**Communication equipment**
Sources: Derived from Bureau of Economic Analysis (BEA) Non-IT deflators and constant ICT and total equipment data from the same source as the current figures.
Notes:

**Non-ICT equipment**
Sources: Derived from deflators for Total equipment, Office and computer equipment and communication equipment.
Notes:

**Total equipment**
Sources: See current.
Notes: See current.

**Transport equipment**
Sources: See current.
Notes: See current.

**Non-residential structures**
Sources: See current.
Notes: See current.

**Residential structures**
Sources: See current.
Notes: See current.
Software
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

Finland
Office and computer equipment
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

Communication equipment
Sources: Derived from Bureau of Economic Analysis (BEA) communication deflators and GDP series from OECD national accounts.
Notes:

Non-ICT equipment
Sources: Derived from deflators for Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment
Sources: See current.
Notes:

Transport equipment
Sources: See current.
Notes:

Non-residential structures
Sources: See current.
Notes:

Residential structures
Sources: See current.
Notes:

Software
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

France:
Office and computer equipment
Sources: Derived from Bureau of Economic Analysis (BEA) Non-IT deflators and constant ICT and total equipment data from the same source as the current figures.
Notes:

Communication equipment
Sources: Derived from Bureau of Economic Analysis (BEA) Non-IT deflators and constant ICT and total equipment data from the same source as the current figures.
Notes:
Non-ICT equipment
Sources: Derived from deflators for Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment
Sources: See current.
Notes: See current.

Transport equipment
Sources: See current.
Notes: See current.

Non-residential structures
Sources: See current.
Notes: See current.

Residential structures
Sources: See current.
Notes: See current.

Software
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

Germany:
Office and computer equipment
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

Communication equipment
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

Non-ICT equipment
Sources: Derived from deflators for Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment
Sources: See current.
Notes: See current.

Transport equipment
Sources: See current.
Notes: See current.

Non-residential structures
Sources: See current.
Notes: See current.
**Residential structures**
Sources: See current.
Notes: See current.

**Software**
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

**Greece**

**Office and computer equipment**
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

**Communication equipment**
Sources: Derived from Bureau of Economic Analysis (BEA) communication deflators and GDP series from OECD national accounts.
Notes:

**Non-ICT equipment**
Sources: Derived from deflators for Total equipment, Office and computer equipment and communication equipment.
Notes:

**Total equipment**
Sources: See current.
Notes: See current.

**Transport equipment**
Sources: See current.
Notes: See current.

**Non-residential structures**
Sources: See current.
Notes:

**Residential structures**
Sources: See current.
Notes:

**Software**
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

**Ireland**

**Office and computer equipment**
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:
**Communication equipment**
Sources: Derived from Bureau of Economic Analysis (BEA) communication deflators and GDP series from OECD national accounts.
Notes:

**Non-ICT equipment**
Sources: Derived from deflators for Total equipment, Office and computer equipment and communication equipment.
Notes:

**Total equipment**
Sources: See current.
Notes: See current.

**Transport equipment**
Sources: See current.
Notes: See current.

**Non-residential structures**
Sources: See current.
Notes:

**Residential structures**
Sources: See current.
Notes:

**Software**
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

**Italy**
**Office and computer equipment**
Sources: Derived from Bureau of Economic Analysis (BEA) Non-IT deflators and constant ICT and total equipment data from the same source as the current figures.
Notes:

**Communication equipment**
Sources: Derived from Bureau of Economic Analysis (BEA) Non-IT deflators and constant ICT and total equipment data from the same source as the current figures.
Notes:

**Non-ICT equipment**
Sources: Derived from deflators for Total equipment, Office and computer equipment and communication equipment.
Notes:

**Total equipment**
Sources: See current.
Notes: See current.

**Transport equipment**
Sources: See current.
Notes: See current.
Non-residential structures
Sources: See current.
Notes: See current.

Residential structures
Sources: See current.
Notes: See current.

Software
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

Luxembourg
Office and computer equipment
Sources: Derived from Bureau of Economic Analysis (BEA) Non-IT deflators and constant ICT and total equipment data from the same source as the current figures.
Notes:

Communication equipment
Sources: Derived from Bureau of Economic Analysis (BEA) Non-IT deflators and constant ICT and total equipment data from the same source as the current figures.
Notes:

Non-ICT equipment
Sources: Derived from deflators for Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment
Sources: See current.
Notes: See current.

Transport equipment
Sources: See current.
Notes: See current.

Non-residential structures
Sources: See current.
Notes: See current.

Residential structures
Sources: See current.
Notes: See current.

Software
Sources:
Notes:

Netherlands
Office and computer equipment
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:
**Communication equipment**
Sources: Derived from Bureau of Economic Analysis (BEA) communication deflators and GDP series from OECD national accounts.
Notes:

**Non-ICT equipment**
Sources: Derived from deflators for Total equipment, Office and computer equipment and communication equipment.
Notes:

**Total equipment**
Sources: See current.
Notes: See current.

**Transport equipment**
Sources: See current.
Notes: See current.

**Non-residential structures**
Sources: See current.
Notes:

**Residential structures**
Sources: See current.
Notes:

**Software**
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

**Portugal**
**Office and computer equipment**
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

**Communication equipment**
Sources: Derived from Bureau of Economic Analysis (BEA) communication deflators and GDP series from OECD national accounts.
Notes:

**Non-ICT equipment**
Sources: Derived from deflators for Total equipment, Office and computer equipment and communication equipment.
Notes:

**Total equipment**
Sources: See current.
Notes: See current.

**Transport equipment**
Sources: See current.
Notes: See current.

Non-residential structures
Sources: See current.
Notes: See current.

Residential structures
Sources: See current.
Notes: See current.

Software
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

Spain
Office and computer equipment
Sources: Derived from Bureau of Economic Analysis (BEA) Non-IT deflators and constant ICT and total equipment data from the same source as the current figures.
Notes:

Communication equipment
Sources: Derived from Bureau of Economic Analysis (BEA) Non-IT deflators and constant ICT and total equipment data from the same source as the current figures.
Notes:

Non-ICT equipment
Sources: Derived from deflators for Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment
Sources: See current.
Notes: See current.

Transport equipment
Sources: See current.
Notes: See current.

Non-residential structures
Sources: See current.
Notes:

Residential structures
Sources: See current.
Notes:

Software
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:
Sweden

Office and computer equipment
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

Communication equipment
Sources: Derived from Bureau of Economic Analysis (BEA) communication deflators and GDP series from OECD national accounts.
Notes:

Non-ICT equipment
Sources: Derived from deflators for Total equipment, Office and computer equipment and communication equipment.
Notes:

Total equipment
Sources: See current.
Notes: See current.

Transport equipment
Sources: See current.
Notes: See current.

Non-residential structures
Sources: See current.
Notes:

Residential structures
Sources: See current.
Notes:

Software
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

UK

Office and computer equipment
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

Communication equipment
Sources: Derived from Bureau of Economic Analysis (BEA) communication deflators and GDP series from OECD national accounts.
Notes:

Non-ICT equipment
Sources: Derived from deflators for Total equipment, Office and computer equipment and communication equipment.
Notes:
**Total equipment**
Notes: See current.

**Transport equipment**
Notes: See current.

**Non-residential structures**
Notes:

**Residential structures**
Notes:

**Software**
Sources: Derived from Bureau of Economic Analysis (BEA) IT deflators, and GDP series from OECD national accounts.
Notes:

**USA**

**Office and computer equipment**
Notes:

**Communication equipment**
Notes:

**Non-ICT equipment**
Notes:

**Total equipment**
Notes:

**Transport equipment**
Notes:

**Non-residential structures**
Notes:

**Residential structures**
Notes:
Software
Sources: Derived from Bureau of Economic Analysis (BEA) February 2003 and April 2005.
Notes:
Source Appendix 2: Other data sources

Compensation of employees:
For all countries: OECD National Accounts, vol. 1, 2005, release 01. For Belgium, France, Ireland, Luxembourg, Portugal, United States 2004 is extrapolated with the trend of GDP.

Total employment:
GGDC Total Economy Database, February 2005

Employees:
GGDC Total Economy Database, February 2005

Hours:
GGDC Total Economy Database, February 2005

GDP (current and constant prices):

Actual and imputed rents (current and constant prices):
Austria:

Belgium:

Denmark:

Finland:

France:

Germany:

Greece:

Ireland:

**Italy:**

**Luxembourg:**

**Netherlands:**

**Portugal:**

**Spain:**

**Sweden:**

**UK:**

**USA:**

**Exchange rates:**

**Depreciation rates:**
Shares of Computers and peripheral equipment, Photocopying and related equipment and office and accounting equipment are from the Bureau of Economic Analysis (BEA).
Shares of own account and purchased software are from Aspden, C. (2004), Report of the 2004 Software Survey
*For other assets*: O’Mahony, M. (2003), Depreciation rates