EXPENDITURE

12. Investment

Investment, or to be more precise, gross fixed capital formation is an essential variable in economic analyses, such as analyses of demand and productivity.

Definition

Gross fixed capital formation (GFCF) is defined in the national accounts as acquisition less disposals of produced fixed assets, *i.e.* assets intended for use in the production of other goods and services for a period of more than a year.

Acquisition includes both purchases of assets (new or second-hand) and the construction of assets by producers for their own use.

The term *produced* assets signifies that only those assets produced as a result of a production process recognised in the national accounts are included. The national accounts also record transactions in non-produced assets such as land, oil and mineral reserves for example; which are recorded as non-produced assets in the balance sheet accounts and not as GFCF.

Acquisition prices of capital goods include transport and installation charges, as well as all specific taxes associated with purchase.

GFCF can be broken down into particular asset groups. Table 12.2 contains 6 groups: Dwellings (excluding land); Other buildings and structures (roads, bridges, airfields, dams, etc.); Transport equipment (ships, railway, aircraft, etc.); Other machinery and equipment (office machinery and hardware, etc.); Cultivated assets (managed forests, livestock raised for milk production etc) and intellectual property type fixed assets (mineral exploration, software and databases, and literary and artistic originals, etc.).

An additional important grouping of Information and Communication Technology (ICT) products is shown in Figure 12.2. ICT has three components: information technology equipment (computers and related hardware), communications equipment and software. It's important to note that ICT embodied in non ICT assets is not included in this concept.

GFCF can also be broken down into institutional sectors. For government this typically means investment in transport infrastructure and public buildings such as schools and hospitals.

For households, GFCF generally equates to dwellings, although investments made by unincorporated enterprises in other products do occur.

Comparability

When the System of National Accounts was revised in 1993, the scope of GFCF was widened to include mineral exploration, computer software and entertainment, literary and artistic originals. Comparability of these items has improved in recent years but the scope with which the various items are covered is smaller in some countries, particularly in the case of own-account production of software.

In making comparisons of GFCF by institutional sector, attention should be given to the mechanisms commonly used to "acquire" assets. For example a unit may prefer to rent an asset, which will not count as GFCF of the lessee. If however the agreement between the lessee and the lessor resembles a finance lease, the SNA treats the lessee as having acquired the asset. On a larger scale many governments are increasingly turning to private finance initiatives to create public infrastructure. Determining who the owner of these schemes is in an SNA sense is non-trivial and may cause problems for temporal and international comparability.

The scope of assets has been widened in the 2008 SNA to include Research and Experimental Development and military weapons systems (see Annex for further information) but the figures contained here do not reflect these additions.

Note on Table 12.2: "Dwellings" includes "Other buildings and structure" for Norway. Cultivated assets are not capitalised for Canada and USA. "Cultivated assets" is included in "Other machinery and equipment" for United Kingdom.

Source

 OECD (2009), National Accounts of OECD Countries 2009, Volume I, Main Aggregates, OECD Publishing, http://dx.doi.org/10.1787/na_vol_1-2009-en-fr.

Online databases

• OECD (2009), "Aggregate national accounts: gross domestic product", OECD National Accounts Statistics (database),

http://dx.doi.org/10.1787/data-00001-en.

 OECD (2009), "Detailed national accounts: simplified non-financial accounts", OECD National Accounts Statistics (database), http://dx.doi.org/10.1787/data-00010-en.

Further reading

- OECD (2010), Handbook on Deriving Capital Measures of Intellectual Property Products, OECD, Paris.
- Lequiller F., N. Ahmad, S. Varjonen, W. Cave and K.-H. Ahn (2003), Report of the OECD Task Force on Software Measurement in the National Accounts, OECD Publishing, http://dx.doi.org/10.1787/334811030426.
- Ahmad N. (2003), Measuring Investment in Software, OECD Publishing, http://dx.doi.org/10.1787/335303788330.

EXPENDITURE

12. Investment

Table 12.1.	Gross	fixed	capital	formation,	volume
-------------	-------	-------	---------	------------	--------

Annual growth rates in percentage														
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Australia	2.3	7.7	9.7	4.5	8.3	-9.5	9.7	14.4	8.3	6.2	8.9	5.5	9.7	9.6 e
Austria	0.1	4.7	-0.0	3.6	1.0	5.5	-1.7	-4.4	4.7	0.7	1.2	2.4	3.8	1.0
Belgium	3.4	1.5	7.1	3.6	4.2	4.5	0.2	-2.2	-0.7	7.1	6.9	4.7	6.2	5.2
Canada	-2.1	4.4	15.2	2.4	7.3	4.7	4.0	1.6	6.2	7.8	9.2	7.1	3.9	0.9 e
Czech Republic	19.8	9.9	-5.7	-0.9	-3.3	5.1	6.6	5.1	0.4	3.9	1.8	6.0	10.8	-1.5
Denmark	11.9	5.8	10.3	8.2	-0.1	7.6	-1.4	0.1	-0.2	3.9	4.7	13.6	3.1	-5.1
Finland	13.3	6.4	13.7	11.1	2.7	6.0	4.3	-3.0	4.0	3.5	3.4	4.8	8.7	0.3
France	1.8	0.7	0.4	7.1	8.3	7.2	2.4	-1.7	2.2	3.6	4.4	4.2	6.6	0.6
Germany	-0.2	-0.5	1.0	4.0	4.8	3.0	-3.7	-6.1	-0.3	-0.3	0.9	7.8	5.0	3.1
Greece	4.1 e	8.4 e	6.8 e	10.6 e	11.0 e	8.0 e	4.8	9.5	11.8	1.4	-4.5	9.8	4.6	-7.4
Hungary	-4.3	3.8	6.5	11.5	6.0	7.2	4.7	10.5	2.1	7.9	5.7	-3.6	1.6	0.4
Iceland	-1.7	25.0	9.3	34.4	-4.1	11.8	-4.3	-14.0	11.1	28.1	35.7	21.7	-12.8	-21.8
Ireland	15.8	16.4	16.5	14.1	13.4	6.3	0.2	3.0	6.4	9.6	14.6	3.9	2.4	-15.5
Italy	6.9	2.3	1.6	4.2	3.9	6.3	2.7	3.7	-1.2	2.3	0.8	2.9	2.0	-3.0
Japan	0.9	4.6	-0.3	-7.2	-0.8	1.2	-0.9	-4.9	-0.5	1.5	3.1	0.5	1.1	-5.0 e
Korea	13.1 e	8.4 e	-2.3 e	-22.9 e	8.3 e	12.2 e	0.3	7.1	4.4	2.1	1.9	3.4	4.2	-1.7
Luxembourg	-1.5	4.9	10.4	6.1	22.0	-4.7	8.8	5.5	6.3	2.7	2.5	4.7	12.6	-0.1
Mexico	-29.0 e	16.4 e	21.0 e	10.3 e	7.7 e	11.4 e	-5.6 e	-0.6 e	0.4 e	8.0	7.5	9.8	7.2	4.9 e
Netherlands	5.9	8.5	8.5	6.8	8.7	0.6	0.2	-4.6	-1.6	-1.6	3.7	7.5	4.8	4.9
New Zealand	11.1	5.1	0.2	-2.4	10.6	0.4	6.8	7.8	12.9	7.6	5.2	-2.3	4.7 e	-5.2 e
Norway	3.9	10.2	15.8	13.7	-5.4	-3.5	-1.1	-1.1	0.2	10.2	13.3	11.7	8.4	3.9
Poland	16.6	19.7	21.8	14.0	6.6	2.8	-9.7	-6.3	-0.1	6.4	6.5	14.9	17.6	8.2
Portugal	6.6	5.6	14.3	11.7	6.2	3.5	1.0	-3.5	-7.4	0.2	-0.9	-0.7	3.1	-0.7
Slovak Republic	0.6	30.1	14.0	9.4	-15.7	-9.6	12.9	0.2	-2.7	4.8	17.6	9.3	8.7	6.8
Spain	7.8	2.6	5.0	11.3	10.4	6.6	4.8	3.4	5.9	5.1	7.0	7.2	4.6	-4.4
Sweden	10.0	4.7	-0.1	8.1	8.5	6.3	-0.5	-1.8	1.4	5.7	8.9	9.1	7.5	2.7
Switzerland	4.8	-1.7	2.1	6.4	1.5	4.2	-3.5	-0.5	-1.2	4.5	3.8	4.7	5.2	0.4
Turkey	9.1 e	14.1 e	14.8 e	-3.9	-16.2	17.5	-30.0	14.7	14.2	28.4	17.4	13.3	3.1	-5.0
United Kingdom	2.9	5.4	6.8	13.7	3.0	2.7	2.6	3.7	1.1	4.9	2.3	6.0	6.8	-3.1
United States	6.3	8.5	8.8	9.9	9.1	6.9	-1.1	-3.0	2.9	6.2	5.3	2.3	-1.4	-4.2
Euro area		1.8	2.8	6.0	6.1	4.8	0.6	-1.4	1.3	2.3	3.2	5.5	4.9	-0.3
OECD-Total		6.0 e	5.6 e	3.8 e	5.4 e	5.2 e	-0.7 e	-1.0 e	2.2 e	4.7	4.8	4.3	2.7	-1.8 e

StatLink and http://dx.doi.org/10.1787/740772513757

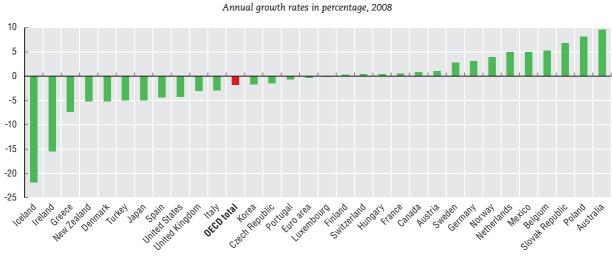


Figure 12.1. Gross fixed capital formation, volume

StatLink ans http://dx.doi.org/10.1787/738857646153

12. Investment

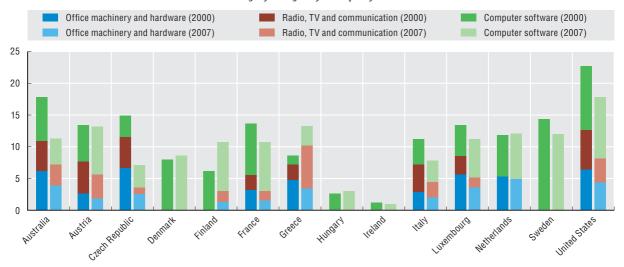
Percentage of total GFCF

	Dwe	llings	Other building:	s and structures	Transport	equipment	Other machiner	y and equipment	Cultivate	ed assets	Intangible fixed assets	
	1997	2007	1997	2007	1997	2007	1997	2007	1997	2007	1997	2007
Australia	23.2	21.7	29.2	35.7	11.2	9.7	23.7	20.2	0.9	0.8	6.6	6.0
Austria	27.2	21.9	29.5	31.6	9.7	12.0	29.3	26.3	0.2	0.3	4.2	7.9
Belgium												
Canada	25.0	31.4	32.0	33.6	10.4	7.8	26.2	19.9			6.5	7.2
Czech Republic	11.0	15.2	42.1	35.1	7.4	15.4	36.3	29.2	0.8	0.5	2.4	4.6
Denmark	21.9	31.3	28.0	22.6	11.2	9.6	31.0	27.1	-0.0	0.0	8.0	9.3
Finland	24.3	28.3	30.2	36.5	7.9	6.4	30.9	20.0	0.3	0.2	6.5	8.7
France	30.7	32.1	28.3	30.9	7.1	7.9	25.6	20.4	0.5	0.3	7.7	8.5
Germany	35.3	29.1	26.0	21.7	8.5	13.5	25.6	29.6	-0.0	-0.0	4.6	6.1
Greece	38.4	35.6	29.7	18.3	10.1	15.0	20.5	26.5	0.2	0.2	3.5	4.5
Hungary	20.9	19.0	34.6	35.6	0.7	9.5	40.0	31.3	1.8	0.7	2.0	3.9
Iceland												
Ireland	33.3	47.1	29.0	30.4	13.8	11.4	20.2	9.6	0.5	-0.1	3.3	1.6
Italy	22.9	24.0	25.7	27.3	9.5	9.8	37.4	34.7	0.1	0.1	4.3	4.1
Japan	18.1	14.8	39.1	37.4	6.8	8.4	31.8	33.2	0.1	0.1	6.2	8.8
Korea	17.3	16.9	44.7	44.6	8.1	7.1	26.1	25.2			3.6	6.2
Luxembourg	13.6	9.5	35.8	47.7	19.9	16.7	23.1	15.9	0.1	0.1	7.6	10.2
Mexico		27.0		38.4		10.1		24.5		0.0		
Netherlands	26.5	32.1	24.3	25.9	9.0	8.4	30.6	23.9	1.1	0.4	8.5	9.3
New Zealand	27.8	28.6	26.1	29.4	10.4	10.3	29.5	24.7			6.3	7.1
Norway	62.2	68.7			12.4	8.9	19.3	15.6			3.1	3.4
Poland	10.8	14.1	42.6	42.4	9.3	10.6	33.9	29.0	0.5	0.2	2.8	3.8
Portugal	54.0				10.8		23.2		1.1		11.1	
Slovak Republic	5.3	9.0	40.5	42.4	7.8	10.3	36.3	28.4	7.2	3.2	2.8	6.8
Spain	21.6	30.1	31.1	27.8	8.5	7.9	22.7	16.9	0.4	0.1	15.7	17.1
Sweden	9.1	17.6	28.9	24.7	7.5	9.2	41.4	32.4	0.6	0.3	12.5	15.7
Switzerland	20.5	21.1	18.3	14.6	7.2	6.5	49.1	49.9	0.2	0.2	4.7	7.8
Turkey		45.8						54.2				
United Kingdom	17.3	22.5	29.9	37.1	9.1	6.2	37.2	27.8			6.5	6.5
United States	22.8	23.7	25.7	30.7	9.7	7.5	33.8	27.8			8.1	10.3
Euro area												
OECD-Total												

StatLink and http://dx.doi.org/10.1787/740803805630

Figure 12.2. Investment in information and communication technologies (ICT)

Percentage of total gross fixed capital formation



StatLink ans http://dx.doi.org/10.1787/738861251562

12. Investment

Table 12.3. Gross fixed capital formation by institutional sector

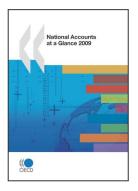
	Percentage of total GFCF												
		Corpo	rations			General g	overnment		Households and non-profit institutions serving households				
	1995	1999	2003	2007	1995	1999	2003	2007	1995	1999	2003	2007	
Australia	53.3	49.4	47.4		10.3	9.8	8.8		36.4	40.8	43.9		
Austria	63.3	69.3	72.5	72.3	12.8	7.4	5.3	4.7	23.9	23.4	22.2	23.0	
Belgium	56.4	61.2	63.0	63.3	9.6	9.4	8.8	7.4	34.0	29.4	28.2	29.3	
Canada	55.0	60.8	54.1	54.3	15.0	11.8	12.6	13.2	30.1	27.4	33.3	32.6	
Czech Republic	69.2	69.6	65.2	59.8	16.7	12.0	17.0	18.7	14.1	18.3	17.8	21.5	
Denmark	68.1	64.4	66.9	62.5	9.6	8.4	8.2	7.9	22.3	27.2	24.8	29.6	
Finland	59.3	55.8	54.2	57.0	16.2	14.5	16.0	12.4	24.6	29.6	29.8	30.7	
France	50.7	53.7	53.0	52.5	17.6	15.6	16.3	15.2	31.7	30.7	30.7	32.2	
Germany	50.6	54.3	56.5	59.1	10.0	8.8	8.7	7.5	39.4	37.0	34.7	33.3	
Greece			34.1				14.9				51.0		
Hungary	61.7	67.9	56.4	59.8	0.9	12.5	15.7	16.8	37.4	19.6	27.9	23.4	
Iceland													
Ireland			36.6	36.6			16.6	15.5			46.9	47.9	
Italy	55.8	56.9	57.5	57.3	10.8	12.1	12.1	11.0	33.4	31.0	30.4	31.7	
Japan		56.2	61.1	69.4		23.1	18.8	13.3		20.7	20.2	17.2	
Korea			61.6	66.6			19.5	17.0			18.9	16.4	
Luxembourg													
Mexico													
Netherlands	54.7	55.1	47.4	46.3	15.2	13.2	18.2	16.7	30.1	31.7	34.4	37.0	
New Zealand													
Norway	62.0	63.8	57.3	62.5	16.0	15.5	17.2	13.2	22.0	20.7	25.5	24.3	
Poland	58.4	68.0	54.4	57.6	18.5	14.3	18.3	19.0	23.1	17.7	27.4	23.4	
Portugal	52.2	56.5	59.7	65.0	16.8	15.1	13.6	10.6	31.0	28.4	26.7	24.5	
Slovak Republic	76.9	71.3	67.3	72.4	9.5	9.9	10.4	7.2	13.6	18.8	22.3	20.4	
Spain			55.4	56.2			13.2	12.4			31.4	31.5	
Sweden	66.4	71.6	68.6	67.9	24.5	18.1	18.1	16.3	9.1	10.3	13.4	15.8	
Switzerland	59.6	63.9	63.7	68.4	13.2	11.7	12.0	8.8	27.2	24.4	24.4	22.8	
Turkey													
United Kingdom	64.6	68.6	59.4	56.8	12.0	7.8	11.0	10.3	23.4	23.6	29.6	33.0	
United States	53.2	53.9	46.8	51.9	13.2	12.4	13.7	13.0	33.6	33.8	39.5	35.1	
Euro area													
OECD-Total													

StatLink and http://dx.doi.org/10.1787/740841702817

Percentage of total gross fixed capital formation, 2007 Corporations General government Households and NPISHs 100 80 60 40 20 United States CLEET REPUBLIC United Kingdom Netletands Slovak Republic 0 Switzerland AUSTIA Belgium Dennati Finland France Italy HOLMAN Poland Portugal Canada Cernany Hungary Helaud 120211 toles Spain Sweden

Figure 12.3. Gross fixed capital formation by sector

StatLink ans http://dx.doi.org/10.1787/740037250208



From: National Accounts at a Glance 2009

Access the complete publication at: https://doi.org/10.1787/9789264067981-en

Please cite this chapter as:

OECD (2010), "Investment", in National Accounts at a Glance 2009, OECD Publishing, Paris.

DOI: https://doi.org/10.1787/9789264075108-14-en

This document, as well as any data and map included herein, are without prejudice to the status of or sovereignty over any territory, to the delimitation of international frontiers and boundaries and to the name of any territory, city or area. Extracts from publications may be subject to additional disclaimers, which are set out in the complete version of the publication, available at the link provided.

The use of this work, whether digital or print, is governed by the Terms and Conditions to be found at <u>http://www.oecd.org/termsandconditions</u>.

