

*Se torturi i numeri abbastanza a lungo, confesseranno qualsiasi cosa.*

Gregg Easterbrook

Roberto Fini

Milano

10 novembre 2012

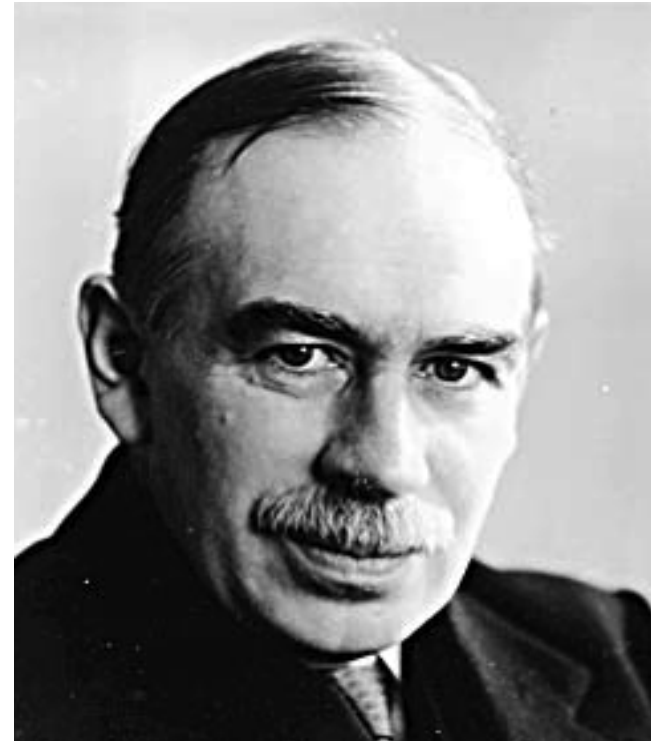
# Aspetti introduttivi

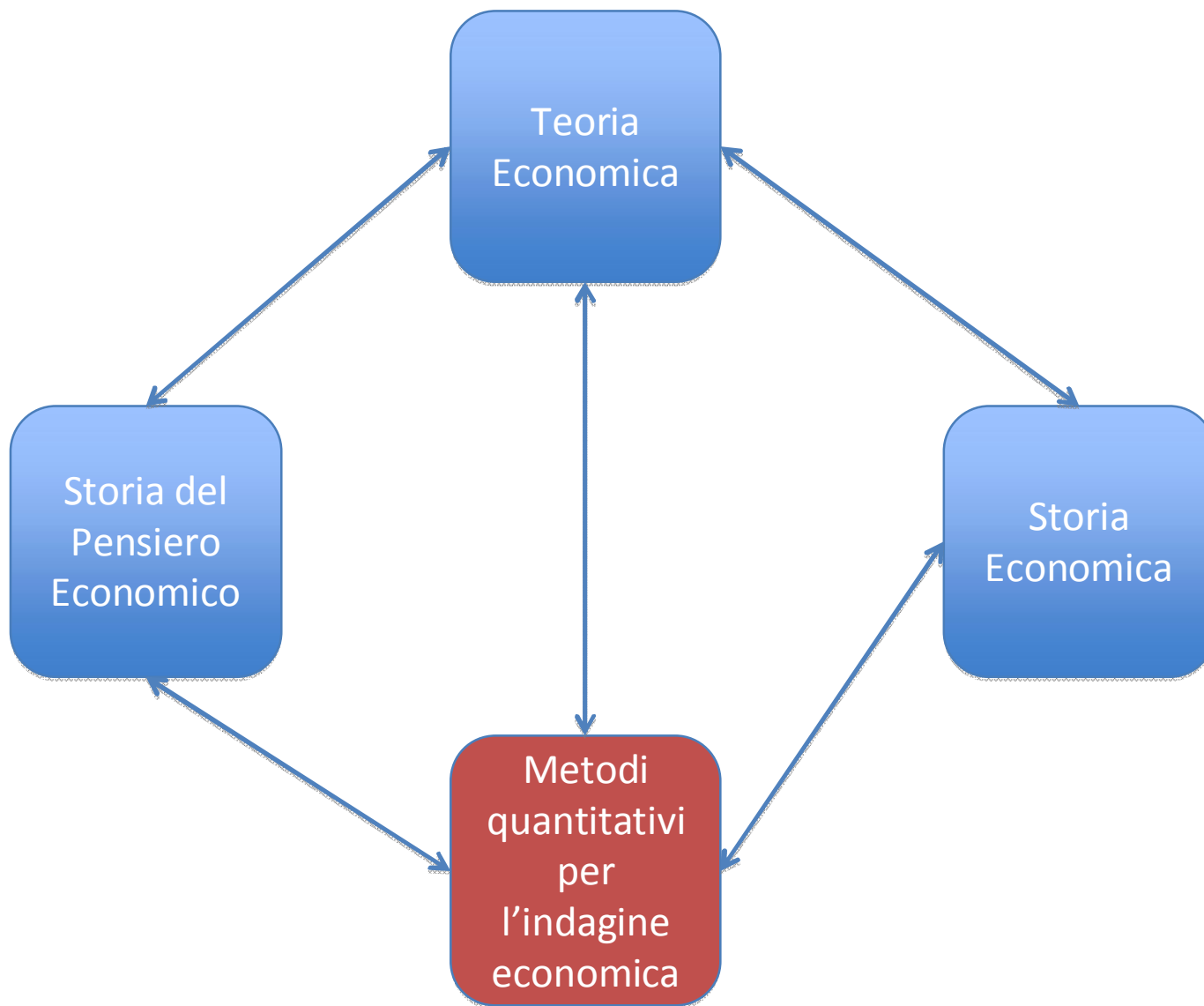
# Competenze

- Competenze necessarie ad un economista:
  - a) una solida preparazione di base, che vada oltre le competenze specialistiche
  - b) la capacità di saper trattare opportunamente i dati
- Competenze necessarie ad un docente di economia:
  - Come sopra e ...
  - c) ... Capacità didattica

- Uno studio della storia del pensiero è premessa necessaria all'emancipazione della mente; non so che cosa renderebbe più conservatore un uomo, se il non conoscere null'altro che il presente, oppure null'altro che il passato.

J. M. Keynes (1926)





## Quantità vs qualità?

- Pensare all'economia come ad una scienza la cui didattica può fare a meno dei dati quantitativi è una pericolosa illusione, che non va trasmessa a coloro che si apprestano a studiarla
- Anche se vi sono approcci alla disciplina che sono all'apparenza lontani dalla necessità di conoscere e trattare i dati, la realtà è ben diversa
- La storia del pensiero economico sembra più vicina alla storia del pensiero filosofico che non all'economia propriamente detta, ma senza l'uso di dati quantitativi molta parte del pensiero economico galleggerebbe in un vuoto irreal e la sua didattica sarebbe inefficace

## Disponibilità di dati

- Un altro aspetto da considerare è legato al fatto che gli economisti e i docenti di economia hanno a disposizione una mole di dati mai avuta in precedenza:
  - non soltanto gli uffici di statistica producono dati “di qualità”, cioè di buona affidabilità ed autorevolezza, ma soprattutto mai prima d’ora tali dati sono stati disponibili immediatamente.
- Poiché tali dati sono quasi tutti liberamente scaricabili il problema della loro disponibilità è risolto
  - resta ovviamente il successivo problema della loro trasformazione da dati grezzi in serie più pregnanti e di maggior comprensibilità

# Siti di interesse



## Organizzazioni che producono statistiche attendibili

- Fondo Monetario Internazionale
- Banca Mondiale
- Organizzazione Internazionale del Lavoro
- Organizzazione per la Cooperazione e lo Sviluppo Economico
- Eurostat
- ISTAT
- Groningen Growth and Development Centre

www.imf.org

IMF -- International Monetary Fund Home Page

file:///Users/robertofini/Desktop/IMF%20--%20International%20Monetary%20Fund%20Home%20Page.weba

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**IMF Support to Poor Countries Gets Needed Boost**

The IMF has approved distribution of additional profits from gold sales as part of a strategy to support low-interest lending to poor countries. Reforms agreed to in 2009 doubled poor countries' access to IMF concessional financing and reduced interest rates to zero.

Downtown Nairobi: The IMF approved a \$508.7 million loan to Kenya in 2011 under the Extended Credit Facility (IMF photo)

Press release  
Report on PRGT's self-sustainability  
Report on IMF lending to poor countries  
More top stories

**Highlights**

- IMF Annual Report 2012
- IMF to Use US\$2.7 Billion in Windfall Gold Sales Profits to Support Lending to Low-Income Countries
- Lagarde: Take Action Now to Secure Global Recovery
- New Pilot Report: External Sector Report  
Send us your Feedback
- The IMF and Europe
- Asia and the IMF

Neighbors in an interconnected world

**IMF Video: How Latvia Recovered From the Crisis**  
October 5, 2012

**St. Kitts and Nevis: IMF Concludes Visit**  
October 5, 2012

**Jamaica: Statement by an IMF Mission**  
October 5, 2012

**IMF Video: Fighting Fires, Why the IMF Lends**  
October 5, 2012

**2012 TOKYO ANNUAL MEETINGS**  
INTERNATIONAL MONETARY FUND  
WORLD BANK GROUP  
OCTOBER 2012

IMF SEMINARS AT THE ANNUAL MEETINGS

**IMF Data Mapper® v3.0**  
Plot, compare and import data from countries and regions

**iMF direct**  
New IMF Blog

**Global Financial Stability Report**  
October 2012 Chapters 3 & 4  
Coming Soon:  
Chapters 1 & 2 – October 10  
9:00 am Tokyo time (JST), 0000 GMT

**World Economic Outlook**  
October 2012 Chapters

IMF Data and Statistics

http://www.imf.org/external/data.htm

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## Data and Statistics

Last Updated: September 2012

The IMF publishes a wide range of time series data on IMF lending, foreign reserves and other economic and financial indicators. Manuals, guides, and other related statistical practices at the IMF, in member countries, and of the statistical community are also available.

Not sure where to find what you are looking for?

Start here

Differences in IMF Data: Incidence and Implications

Comments

Please send your comments about the Data & Statistics section to: [IMFWebmaster](mailto:IMFWebmaster)

October 5, 2012

1 USD = 0.647565 SDR  
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» [Additional Data Sources](#)

### Most Visited Data and Statistics

- » [World Economic Outlook -- Analytical Chapters](#) **NEW** October 2012
- » [Global Financial Stability Report -- Analytical Chapters](#) **NEW** October 2012
- » [Fiscal Monitor Update](#), July 2012
- » [IMF eLibrary-data: IFS, BOP, DOTS, GFS](#)
- » [IMF Data Mapper@](#)
- » [IMF Finances](#)
- » [SDRs per Currency unit](#)
- » [IMF Primary Commodity Prices](#)

## Data

» [Global Data](#)

[World Economic Outlook Databases \(WEO\)](#)  
Download time series data for GDP growth, inflation, unemployment, payments balances, exports, imports, external debt, capital flows, commodity prices, more.

[International Financial Statistics \(IFS\)](#)  
*5-day trial*  
Approximately 32,000 time series covering more than 200 countries starting in 1948. Includes exchange rates, Fund accounts and the main global and country economic indicators. [order here](#)

[Principal Global Indicators \(PGI\)](#)

[IMF eLibrary-Data](#) **new**  
Provides comprehensive trial and subscription access to IFS, BOPs, DOTS, GFS and free access to a range of additional IMF datasets. [Access free data](#); [order subscription](#); [free trial](#); [journalists](#).

[Currency Composition of Official Foreign Exchange Reserves \(COFER\)](#)  
End-of-period quarterly data on the currency composition of official foreign exchange reserves. Data presented in CSV and PDF are aggregated data. Data now available also through [IMF eLibrary-Data](#).

The screenshot shows a web browser window with the URL <http://www.imf.org/external/data.htm#data>. The page title is "IMF Data & Statistics". The browser's address bar shows the URL, and the search bar contains "Google". The page content is organized into a grid. At the top left, there is a small box with the date "October 5, 2012" and the exchange rate "1 USD = 0.647565 SDR", with a link to "More SDR Info". Below this, the main heading "Data" is displayed in a blue bar, with a red arrow pointing to it. Underneath "Data", there is a sub-heading "» Global Data". The page is divided into two columns of data sources. The left column includes: "World Economic Outlook Databases (WEO)" with a description of time series data for GDP, inflation, etc.; "International Financial Statistics (IFS)" with a 5-day trial offer and description of 32,000 time series; "Principal Global Indicators (PGI)" described as a website bringing together data from international agencies; "Public Sector Debt Statistics Online Centralized Database" as a joint World Bank-IMF database; "Joint External Debt Hub" as a database of external debt and foreign assets; and "Quarterly External Debt Statistics (QEDS)" as external debt data reported by SDDS subscribers. The right column includes: "IMF eLibrary-Data" with a "new" tag and description of comprehensive trial and subscription access; "Currency Composition of Official Foreign Exchange Reserves (COFER)" as end-of-period quarterly data; "Financial Access Survey (FAS)" with a "new" tag and description of annual geographic and demographic data; "Financial Soundness Indicators (FSIs)" as data and metadata reported on a regular basis; and "Direction of Trade Statistics (DOTS)" with a 5-day trial offer and description of data on country and area distribution of exports and imports. At the bottom of the right column, there is a link for "Primary Commodity Prices".

IMF World Economic Outlook Database List


http://www.imf.org/external/ns/cs.aspx?id=28

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### World Economic Outlook Databases

The World Economic Outlook (WEO) database is created during the biannual WEO exercise, which begins in January and June of each year and results in the April and September WEO publication. Selected series from the publication are available in a database format. See also, the [World Economic Outlook Reports](#).

October 06, 2012

- [World Economic and Financial Surveys Series](#)
- [World Economic Outlook Reports](#)
- [World Economic Outlook Updates](#)
- [IMF Data Mapper@](#)
- Have a question about WEO Data? Visit our [WEO Discussion Forum](#)
- [International Capital Markets Reports](#)
- [Research at the IMF](#)

**World Economic Outlook Database April 2012**  
Date: April 17, 2012

**World Economic Outlook Database September 2011**  
Date: September 20, 2011

**World Economic Outlook Database April 2011**  
Date: April 11, 2011

**World Economic Outlook in Maps - October 2010 Database**  
Date: October 21, 2010

**World Economic Outlook Database October 2010**  
Date: October 06, 2010

**World Economic Outlook Database April 2010**  
Date: April 21, 2010

**World Economic Outlook in Maps - April 2010 Database**  
Date: April 21, 2010

**World Economic Outlook Database October 2009**  
Date: October 01, 2009

**World Economic Outlook Database April 2009**  
Date: April 22, 2009

**World Economic Outlook Database October 2008**  
Date: October 08, 2008

**World Economic Outlook Database April 2008**  
Date: April 09, 2008

**World Economic Outlook Database for October 2007**  
Date: October 17, 2007

**World Economic Outlook Database for April 2007**  
Date: April 11, 2007

**World Economic Outlook Database for September 2006**  
Date: September 14, 2006

World Economic Outlook Database April 2012

http://www.imf.org/external/pubs/ft/weo/2012/01/weodata/index.aspx

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World Economic Outlook Text April 2012

Archive of the World Economic Outlook databases

Changes to the Database

Assumptions and Data Conventions

Country Information

Groups and Aggregates

Frequently Asked Questions: WEO

Have a WEO data question? Please visit our discussion forum

Note

Tell us what you think of the April 2012 WEO Database. Please note that this is a user feedback tool only.

**World Economic and Financial Surveys**  
World Economic Outlook Database  
Disclaimer

**WEO Update: July 16, 2012**

For the latest GDP data for the following countries please check the "Projected % Change" table in the left hand column of the individual country pages:

Brazil	Italy	South Africa
Canada	Japan	Spain
China	Mexico	United Kingdom
	Russia	United States

**Download WEO Data: April 2012 Edition**

By Countries (country-level data) or By Country Groups (aggregated data) and commodity prices or Entire Dataset

The World Economic Outlook (WEO) database contains selected macroeconomic data series from the statistical appendix of the World Economic Outlook report, which presents the IMF staff's analysis and projections of economic developments at the global level, in major country groups and in many individual countries. The WEO is released in April and September/October each year.


Use this database to find data on national accounts, inflation, unemployment rates, balance of payments, fiscal indicators, trade for countries and country groups (aggregates), and commodity prices whose data are reported by the IMF.

Data are available from 1980 to the present, and projections are given for the next two years. Additionally, medium-term projections are available for selected indicators. For some countries, data are incomplete or unavailable for certain years.

World Economic Outlook on Google Public Data Explorer offers select indicators from the latest online WEO database, such as GDP growth and inflation.

**Changes to the April 2012 Database**

- As in the September 2011 *World Economic Outlook*, fiscal and external debt data for Libya are excluded for 2011 and later due to the uncertain political situation.



Select Country or Country Groups

http://www.imf.org/external/pubs/ft/weo/2012/01/weodata/weoselgr.aspx

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World Economic Outlook Database, April 2012

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### 1. Select Country Group

Country Group	Notes
<a href="#">All countries</a>	
<a href="#">Advanced economies</a>	
<a href="#">Euro area</a>	
<a href="#">Major advanced economies (G7)</a>	
<a href="#">Newly industrialized Asian economies</a>	
<a href="#">Emerging and developing economies</a>	
<a href="#">Central and eastern Europe</a>	
<a href="#">Commonwealth of Independent States</a>	
<a href="#">Developing Asia</a>	
<a href="#">Latin America and the Caribbean</a>	
<a href="#">Middle East and North Africa</a>	
<a href="#">Sub-Saharan Africa</a>	

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**Group Information**

**Commonwealth of Independent States**  
Georgia and Mongolia, which are not members of the Commonwealth of Independent States, are included in this group for reasons of geography and similarities in economic structure.

---

**Help**

Select one Country Group. You will be able to select the specific countries for which you require statistics in the next step.

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On this site, the term "country" does not in all cases refer to a territorial entity that is a state as understood by international law and practice. As used here, the term also covers some territorial entities that are not states. Dependent territories of member countries are listed alphabetically followed by a description of the constitutional relationships with their member countries.

[Home](#) | [About the IMF](#) | [Research](#) | [Country Info](#) | [News](#) | [Videos](#) | [Data and Statistics](#) | [Publications](#)

[World Economic Outlook Database, April 2012](#)

Step 2 of 5    1 >> 2 >> 3 >> 4 >> 5 >>
 
[New Query](#)  
[Help](#)

**2. Select Countries**

**All countries** (184 countries)

Countries	Notes	Countries	Notes
<input checked="" type="checkbox"/> Islamic Republic of Afghanistan	<a href="#">i</a>	<input checked="" type="checkbox"/> Latvia	<a href="#">i</a>
<input checked="" type="checkbox"/> Albania	<a href="#">i</a>	<input checked="" type="checkbox"/> Lebanon	<a href="#">i</a>
<input checked="" type="checkbox"/> Algeria	<a href="#">i</a>	<input checked="" type="checkbox"/> Lesotho	<a href="#">i</a>
<input checked="" type="checkbox"/> Angola	<a href="#">i</a>	<input checked="" type="checkbox"/> Liberia	<a href="#">i</a>
<input checked="" type="checkbox"/> Antigua and Barbuda	<a href="#">i</a>	<input checked="" type="checkbox"/> Libya	<a href="#">i</a>
<input checked="" type="checkbox"/> Argentina	<a href="#">i</a>	<input checked="" type="checkbox"/> Lithuania	<a href="#">i</a>
<input checked="" type="checkbox"/> Armenia	<a href="#">i</a>	<input checked="" type="checkbox"/> Luxembourg	<a href="#">i</a>
<input checked="" type="checkbox"/> Australia	<a href="#">i</a>	<input checked="" type="checkbox"/> Former Yugoslav Republic of Macedonia	<a href="#">i</a>
<input checked="" type="checkbox"/> Austria	<a href="#">i</a>	<input checked="" type="checkbox"/> Madagascar	<a href="#">i</a>
<input checked="" type="checkbox"/> Azerbaijan	<a href="#">i</a>	<input checked="" type="checkbox"/> Malawi	<a href="#">i</a>
<input checked="" type="checkbox"/> The Bahamas	<a href="#">i</a>	<input checked="" type="checkbox"/> Malaysia	<a href="#">i</a>
<input checked="" type="checkbox"/> Bahrain	<a href="#">i</a>	<input checked="" type="checkbox"/> Maldives	<a href="#">i</a>
<input checked="" type="checkbox"/> Bangladesh	<a href="#">i</a>	<input checked="" type="checkbox"/> Mali	<a href="#">i</a>
<input checked="" type="checkbox"/> Barbados	<a href="#">i</a>	<input checked="" type="checkbox"/> Malta	<a href="#">i</a>
<input checked="" type="checkbox"/> Belarus	<a href="#">i</a>	<input checked="" type="checkbox"/> Mauritania	<a href="#">i</a>
<input checked="" type="checkbox"/> Belgium	<a href="#">i</a>	<input checked="" type="checkbox"/> Mauritius	<a href="#">i</a>
<input checked="" type="checkbox"/> Belize	<a href="#">i</a>	<input checked="" type="checkbox"/> Mexico	<a href="#">i</a>
<input checked="" type="checkbox"/> Benin	<a href="#">i</a>	<input checked="" type="checkbox"/> Moldova	<a href="#">i</a>



Select Subjects

http://www.imf.org/external/pubs/ft/weo/2012/01/weodata/weoselser.aspx?c=512%2c941%2c914%2c44

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World Economic Outlook Database, April 2012

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3. Select Subjects

Select All Clear All Continue >

Subjects	Notes	Availability
<b>National Accounts</b>		
<input type="checkbox"/> Gross domestic product, constant prices National currency	<a href="#">i</a>	[184/184]
<input type="checkbox"/> Gross domestic product, constant prices Percent change	<a href="#">i</a>	[184/184]
<input type="checkbox"/> Gross domestic product, current prices National currency	<a href="#">i</a>	[184/184]
<input type="checkbox"/> Gross domestic product, current prices U.S. dollars	<a href="#">i</a>	[184/184]
<input type="checkbox"/> Gross domestic product, deflator Index	<a href="#">i</a>	[183/184]
<input type="checkbox"/> Gross domestic product per capita, constant prices National currency	<a href="#">i</a>	[183/184]
<input type="checkbox"/> Gross domestic product per capita, current prices National currency	<a href="#">i</a>	[183/184]
<input checked="" type="checkbox"/> Gross domestic product per capita, current prices U.S. dollars	<a href="#">i</a>	[183/184]
<input type="checkbox"/> Output gap in percent of potential GDP Percent of potential GDP	<a href="#">i</a>	[27/184]
<input type="checkbox"/> Gross domestic product based on purchasing-power-parity (PPP) valuation of country GDP Current international dollar	<a href="#">i</a>	[184/184]
<input type="checkbox"/> Gross domestic product based on purchasing-power-parity (PPP) per capita GDP Current international dollar	<a href="#">i</a>	[183/184]
<input type="checkbox"/> Gross domestic product based on purchasing-power-parity (PPP) share of world total Percent	<a href="#">i</a>	[184/184]



Report for Selected Countries and Subjects

http://www.imf.org/external/pubs/ft/weo/2012/01/weodata/weorept.aspx?sy=1980&ey=2017&scsm=1&... Google

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World Economic Outlook April 2012

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**5. Report for Selected Countries and Subjects**  
 You will find [notes](#) on the data and options to [download](#) the table below your results.

Country	Subject Descriptor	Units	Scale	Country/Series-specific Notes	1980	1990
Islamic Republic of Afghanistan	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	n/a	n
Albania	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	686.306	770.75
Algeria	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	2,268.607	2,305.50
Angola	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	663.523	604.66
Antigua and Barbuda	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	2,124.855	2,394.32
Argentina	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	7,477.520	5,966.33
Armenia	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	n/a	n
Australia	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	11,079.638	12,614.40
Austria	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	10,625.774	9,188.90
Azerbaijan	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	n/a	n
The Bahamas	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	8,982.479	9,131.90
Bahrain	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	8,852.761	9,610.16
Bangladesh	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	215.788	204.75
Barbados	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	3,884.960	4,275.81
Belarus	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	n/a	n
Belgium	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	12,692.711	10,548.38
Belize	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	1,148.111	1,193.64
Benin	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	432.559	282.78
Bhutan	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	326.881	343.35
Bolivia	Gross domestic product per capita, current prices	U.S. dollars	Units	<a href="#">i</a>	718.456	635.94

www.worldbank.org

The screenshot shows the World Bank website homepage. At the top, there is a navigation bar with the World Bank logo and the tagline "Working for a better world for all". Below this is a search bar and social media icons. The main content area features a large infographic titled "Disaster Resilience" with a world map highlighting various disaster events. A prominent red box on the right contains the text "Sendai Dialogue: How to Manage Disaster Risk?". Below the infographic are four featured articles: "Sendai Dialogue", "What Will It Take to End Poverty?", "Jobs Drive Development", and "Africa's Pulse". At the bottom, there are sections for "RESOURCES" (Civil Society, Governments, etc.), "WHAT'S NEW" (Speeches & Transcripts, Reports), "BLOGS" (Teachers in Timor-Leste), and a "2012 TOKYO ANNUAL MEETINGS" banner.

http://www.worldbank.org/

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ABOUT | DATA | RESEARCH | LEARNING | NEWS | PROJECTS & OPERATIONS | PUBLICATIONS | COUNTRIES | TOPICS

earthquake 2010 HAITI  
120% of GDP  
220,000 Dead  
\$7.8 BILLION

Forest Fire 2010  
0.1% of GDP  
53 Dead  
\$1.8 BILLION

FLOOD Pakistan 2010  
5.8% of GDP  
1,980 Dead  
\$10.2 BILLION

earthquake & tsunami 2011 JAPAN  
4% of GDP  
20,000 Dead  
\$210 BILLION

DROUGHT Horn of Africa  
13.3 million  
FACING FOOD SHORTAGES

HURRICANE United States 2005  
1.0% of GDP  
1,833 Dead  
\$45 BILLION

FLOOD Thailand 2011  
\$4.5 BILLION  
17% of GDP  
813 Dead

earthquake & tsunami 2010 CHILE

FLOOD Mozambique 2009  
10% of GDP  
800 Dead  
\$0.4 BILLION

TSUNAMI Indonesia 2004  
1% of GDP  
165,000 Dead  
\$4.5 BILLION

DISASTER RESILIENCE  
**Sendai Dialogue:  
How to Manage  
Disaster Risk?**  
Leaders and experts will gather in Sendai, Japan, to examine how to better manage disaster risk in a changing world.  
► Sendai Dialogue: Watch Livestream, Oct. 9-10  
► TEDx Sendai: Watch Livestream, Oct. 10  
► Annual Meetings 2012: Find Webcasts and Learn More on World Bank Live

Sendai Dialogue  
What Will It Take to End Poverty?  
Jobs Drive Development  
Africa's Pulse

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WHAT'S NEW  
SPEECHES & TRANSCRIPTS  
Jim Yong Kim Remarks at the 45th Annual Meeting of the Association of American Chambers of Commerce in Latin America  
REPORT  
Australia and the World Bank: Unlocking Potential, Achieving Results

BLOGS  
Teachers in Timor-Leste: Bridge to the Future  
"All of us count teachers as one of the key actors for a nation's development."  
— Joao Dos Santos, October 4  
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**Countries and Economies** DATABANK SHARE

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Albania	Ecuador	Liberia	Saudi Arabia
Algeria	Egypt, Arab Rep.	Libya	Senegal
American Samoa	El Salvador	Liechtenstein	Serbia
Andorra	Equatorial Guinea	Lithuania	Seychelles
Angola	Eritrea	Luxembourg	Sierra Leone
Antigua and Barbuda	Estonia	Macao SAR, China	Singapore
Argentina	Ethiopia	Macedonia, FYR	Sint Maarten (Dutch part)
Armenia	Faeroe Islands	Madagascar	Slovak Republic
Aruba	Fiji	Malawi	Slovenia
Australia	Finland	Maldives	Solomon Islands
Austria	France	Malta	Somalia
Azerbaijan	French Polynesia	Marshall Islands	South Africa
Bahamas, The	Gabon	Mauritania	South Sudan
Bahrain	Gambia, The	Mauritius	Spain
Bangladesh	Georgia	Mexico	Sri Lanka
Barbados	Germany	Moldova	St. Kitts and Nevis

**Developing regions**

- East Asia & Pacific
- Europe & Central Asia
- Latin America & Caribbean
- Middle East & North Africa
- South Asia
- Sub-Saharan Africa

**Income levels**

- High income: nonOECD
- Low income
- Upper middle income
- Lower middle income
- High income: OECD

**Other country groups**

- Arab World

Germany | Data

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**Germany**

Income level  
**High income: OECD**

GDP (current US\$)  
**\$3.571 trillion** 2011

Population, total  
**81.73 million** 2011

**BROWSE**

- World Development Indicators
- Finances
- Climate

**World Development Indicators**

Graph, map and compare more than 1,000 time series indicators from the World Development Indicators and more than 5,000 indicators more from other collections such as Gender Statistics, African Development Indicators or Education Statistics.

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**School enrollment, primary (% gross)**

102% 2010

Germany High income: OECD

**CO2 emissions (metric tons per capita)**

9.6 2008

Germany High income: OECD

**Improved water source, rural (% of rural population with access)**

100%

Germany High income: OECD

**Life expectancy at birth, total (years)**

80 2010

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<a href="#">Aid Effectiveness</a>	<a href="#">Infrastructure</a>
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<a href="#">Economic Policy &amp; External Debt</a>	<a href="#">Poverty</a>
<a href="#">Education</a>	<a href="#">Private Sector</a>
<a href="#">Energy &amp; Mining</a>	<a href="#">Public Sector</a>
<a href="#">Environment</a>	<a href="#">Science &amp; Technology</a>
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<a href="#">Gender</a>	<a href="#">Urban Development</a>

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**Education** DATABANK DOWNLOAD DATA SHARE

Education is one of the most powerful instruments for reducing poverty and inequality and lays a foundation for sustained economic growth. The World Bank compiles data on education inputs, participation, efficiency, and outcomes. Data on education are compiled by the United Nations Educational, Scientific, and Cultural Organization (UNESCO) Institute for Statistics from official responses to surveys and from reports provided by education authorities in each country.

**School enrollment, primary**  
(% gross)

**106%** 2010

**School enrollment, secondary**  
(% gross)

**70%** 2010

**Primary completion rate, male**  
(% of relevant age group)

**91%** 2010

**Primary completion rate, female**  
(% of relevant age group)

**89%** 2010

**Featured indicators**

- Children out of school, primary, female
- Children out of school, primary, male
- Expenditure per student, primary (% of GDP per capita)
- Expenditure per student, secondary (% of GDP per capita)
- Expenditure per student, tertiary (% of GDP per capita)

Feedback



# www.ilo.org

International Labour Organization

http://www.ilo.org/global/lang--en/index.htm

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**International Labour Organization**  
Promoting jobs, protecting people

About the ILO Topics Regions Meetings and events Publications Research Labour standards Statistics and databases

**World Teachers Day**  
**Teachers struggle to be top of the class**  
Teachers face severe challenges in different parts of the world and are still under pressure to produce results. As the profession marks World Teachers Day, two teachers working thousands of miles apart tell their stories.

From the newsroom »

- Teachers struggle to be top of the class
- ILO Chief warns of austerity's 'toxic' impact
- Youth labour market still critical in G20 countries

Labour rights recognized for Filipino domestic workers

The Philippines' ratification of ILO Convention 189 officially extends basic labour rights to domestic workers and will bring the convention into force within the year. But what does passing this landmark legislation actually change in the life of a maid working in the Philippines?

**Focus on**

**Youth employment**  
40 per cent of the jobless worldwide are young people. There will be nearly 75 million unemployed youth aged 15 to 24 in 2012, an increase of nearly 4 million since 2007. The youth unemployment crisis can be beaten but only if job creation for young people becomes a key priority in policy-making.

**Social Protection**  
Social protection programmes can act as stabilizers mitigating the impact of economic crises on labour markets while contributing to maintaining social cohesion and stimulating aggregate demand.

**The ILO and the G20**  
G20 countries would need to create 21 million jobs in 2012 in order to return to pre-crisis employment levels.

**Key resources**

- ILO Training Centre
- The ILO at Work
- Labour statistics
- ILO Helpdesk

Follow us on

- "Work in Progress", the ILO's Blog
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- YouTube
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- RSS feeds

Statistics and databases

http://www.ilo.org/global/statistics-and-databases/lang--en/index.htm

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ILO home > Statistics and databases

## Statistics and databases

**Overview and topics**

- Standards and guidelines
- Classifications
- Meetings and events
- Resources for researchers

**What's new**

- Macroeconomic policy advice and the Article IV consultations: A Development perspective
- Preliminary Agenda for the Working Group (Sep. 2012)
- Final report of the Advisory Regional Meeting of Labour Statisticians in support of the 19th ICIS (Africa and Asia Pacific)

**Labour statistics**

**LABORSTA - database of labour statistics**

Covers official core labour statistics and estimates for over 200 countries since 1969. Also provides methodological descriptions of main national statistical sources.

**Key Indicators of the Labour Market (KILM)**

Published every two years since 1999, the KILM is a collection of 20 key indicators of the labour market, ranging from employment and variables relating to employment (status, sector, hours, etc.) to education, wages and compensation costs, labour productivity and working poverty.

**Labour Force Surveys**

Compiles web sites which contain data from national statistical agencies, the ILO and other sources. Includes links to source web sites and references to print publications available in the ILO Library.

**Databases**

**NORMLEX - Database of International Labour Standards and recommendations**

Comprehensive database providing open access to the latest information on ILO international labour standards as well as national labour and social security laws.

**NATLEX - database of national labour, social security and related human rights legislation**

Records in NATLEX provide abstracts of legislation and relevant citation information, and they are indexed by keywords and by subject classifications.

**Occupational safety and health**

**International Chemical Safety Cards (ICSC)**

The cards are data sheets intended to provide essential safety and

**Quick links**

- International Conference of Labour Statisticians
- International Standard Classification of Occupations
- Statistical guidelines and standards
- List of ILO databases

**See also**


- Department of Statistics
- Policy Integration Department
- How to find labour statistics

Statistical Information and

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**Statistics**

- By topic
- By country
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- Short term indicators of the labour market

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- Definitions
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- Economically Active Population, Estimates and Projections 1990-2020 (EAPEP), update of October 2011
- Women and men in the informal economy - Country-specific tables **[NEW]**
- Rural Labour Statistics
- Trade Union Membership Statistics

**Statistics by topic** [ [By country](#) - [By publication](#) ]

<b>Total and Economically Active Population</b>	<b>Consumer Price Indices</b>
<b>Employment</b>	<b>Occupational Injuries</b>
<b>Unemployment</b>	<b>Strikes and Lockouts</b>
<b>Hours of Work</b>	<b>Household Income and Expenditure</b>
<b>Wages</b>	<b>International Labour Migration</b>
<b>Labour Cost</b>	


**Metadata**

- Definitions

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**Statistics by topic** [ By country - By publication ]

<b>Total and Economically Active Population</b>	<b>Consumer Price Indices</b>
<b>Employment</b>	<b>Occupational Injuries</b>
<b>Unemployment</b>	<b>Strikes and Lockouts</b>
<ul style="list-style-type: none"> <li>Main statistics (annual): unemployment general level, by age group, by level of education, by economic activity, by occupation</li> <li>Main statistics (monthly): unemployment general level</li> <li>ILO-Comparable Estimates - Adjusted annual average employment and unemployment estimates (ILOCE)</li> </ul>	<b>Household Income and Expenditure</b>
<b>Hours of Work</b>	<b>International Labour Migration</b>
<b>Wages</b>	

LABORSTA Internet: Selection screen

http://laborsta.ilo.org/STP/guest

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**Main statistics (annual)**  
[ Definition ]

**Select one or more countries/groups of countries:**

- AFRICA
- AMERICA
- ASIA
- EUROPE
- OCEANIA
- Afghanistan
- Albania
- Algeria
- American Samoa
- Andorra

**Select the first year:** 1999 **and the last year:** 2008

**Select one or more tables:**

- 3A Unemployment, general level
- 3B Unemployment, by age group
- 3C Unemployment, by level of education
- 3D Unemployment, by economic activity
- 3E Unemployment, by occupation

**Go!**

After you select and submit, this part of the screen will be modified to allow you to view and/or download your selection.

# www.oecd.org

The screenshot shows the OECD website homepage in a browser window. The browser's address bar displays "http://www.oecd.org/". The page features the OECD logo with the tagline "BETTER POLICIES FOR BETTER LIVES". A navigation menu includes "OECD Home", "About", "Countries", "Topics", "Statistics", and "Newsroom".

**What's new**

- INTERNET: Technology firms driving IT growth
- INDONESIA: Promoting inclusive growth**
- ECONOMY: Preventing boom/bust cycles in Estonia
- AGRICULTURE: Support to agriculture at historic lows
- EDUCATION: Spending rising but access still unequal
- More news

**Indonesia: Strong and stable growth**  
GDP, year-on-year growth rate

Year	Indonesia (%)	OECD (%)
2008	~6.5	~4.5
2009	~5.5	~1.5
2010	~6.5	~4.5
2011	~6.5	~4.5
2012	~6.5	~4.5

Source: Economic survey of Indonesia 2012

27 September 2012

Indonesia has improved its macro-economic and structural policies over the last 15 years. Its economy, with strong and stable growth rates of 5–6.6%, is catching up with other countries in the region and allowing Indonesia to focus on its development agenda, according to the latest economic survey.

[Read more](#)

**Focus**

**DEVFAP12**

**XIIth INTERNATIONAL ECONOMIC FORUM ON AFRICA**

**Promoting Youth Employment:**  
Making the Most of Africa's Human Resources & Natural Wealth

4 October 2012

The International Economic Forum on Africa is the annual meeting of African policy-makers, the private sector and the development community working with Africa. The Forum 2012 will focus on African youth employment – from better training to better use of natural resources to foster job creation.

[Read more](#)

Create Your Better Life Index

**Key issues**

- Restoring public finances
- Boosting jobs and skills
- Restoring public trust
- New sources of growth



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Keyword	Indicator	Table	Real-time dataset
Africa	African economies: basic indicators	<a href="#">Download</a> <a href="#">Excel</a>	
Agriculture	Consumer support estimates (subsidies)	<a href="#">Download</a> <a href="#">Excel</a>	<a href="#">Get real-time data</a>
	Environment: agriculture	<a href="#">Download</a> <a href="#">Excel</a>	
	OECD Producer single commodity transfers	<a href="#">Download</a> <a href="#">Excel</a>	
	OECD Total support estimates	<a href="#">Download</a> <a href="#">Excel</a>	
	Producer support estimates (subsidies)	<a href="#">Download</a> <a href="#">Excel</a>	<a href="#">Get real-time data</a>
	Wheat production	<a href="#">Download</a> <a href="#">Excel</a>	<a href="#">Get real-time data</a>
	World cereal projections	<a href="#">Download</a> <a href="#">Excel</a>	
	World prices	<a href="#">Download</a> <a href="#">Excel</a>	<a href="#">Get real-time data</a>

http://epp.eurostat.ec.europa.eu

The screenshot shows the Eurostat Home page with the following sections:

- Latest news releases:**

Date	News Release
05.10.2012	Almost 70% of employed persons in the EU27 worked in the service sector in 2011
03.10.2012	Volume of retail trade up by 0.1% in euro area
02.10.2012	Industrial producer prices up by 0.9% in euro area
01.10.2012	Euro area unemployment rate at 11.4%
01.10.2012	Past trends and latest data for the headline indicators of the Europe 2020 strategy
28.09.2012	Euro area inflation estimated at 2.7%
19.09.2012	Production in construction down by 0.3% in euro area
- Selected Statistics:**
  - Macroeconomic Imbalance Procedure (MIP)
  - Europe 2020 indicators
  - Euroindicators/PEEIs
  - Sustainable development indicators
  - Government finance
  - Prices (HICP)
- Selected Publications:**
  - Eurostat yearbook
  - Regional yearbook
- Statistics Explained:** Your guide to European statistics
- Country profiles:** Now available for iPhone, iPad and Android!



http://epp.eurostat.ec.europa.eu/portal/page/portal/stat/SEARCH\_DATABASE

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European Commission  
**eurostat** Your key to European statistics

European Commission > Eurostat > Statistics > Browse / Search database

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- Access to microdata
- GISCO: Geographical Information and maps
- ▼ Metadata
  - Concepts and definitions
  - Legislation and methodology
  - Classifications
  - Glossaries and thesauri
  - National methodologies
  - Euro-SDMX Metadata Structure
  - Standard code lists
  - SDMX data and metadata exchange

**Browse / Search Database**

To use enhanced functionalities, please login or register

Search in tree:

Navigation tree: [Create Custom Tree](#) [Table of Content](#) [Settings](#) [Information](#)

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  - 📁 **Database by themes**
    - 📁 General and regional statistics
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  - 📁 **Tables on EU policy**
    - 📁 Macroeconomic Imbalance Procedure Scoreboard

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Regioni Argomento

ultime notizie

**Le persone senza dimora**  
Al convegno si presenta per la prima volta un quadro del profilo socio-demografico dei senza dimora  
Evento, martedì 9 ottobre 2012

**Euro-zone economic outlook**  
Pil area euro in contrazione nel III e IV trimestre 2012, stagnazione nel I trimestre 2013  
Comunicato stampa, venerdì 5 ottobre 2012

**Conti economici nazionali**  
Nel 2011 il Pil in volume aumenta dello 0,4% sul 2010 e il rapporto deficit/Pil è pari a -3,9%  
Comunicato stampa, giovedì 4 ottobre 2012

**La scuola e le attività educative**  
Il 18,7% dei bambini di 0-2 anni frequenta un asilo nido pubblico o privato (il 27,1% nel Nord-est)  
Comunicato stampa, mercoledì 3 ottobre 2012

**La distribuzione dei prodotti fitosanitari**  
Nel 2011 i fitosanitari distribuiti per uso agricolo risultano in calo dell'1% in un anno  
Comunicato stampa, martedì 2 ottobre 2012

**Nuovi prodotti sul Censimento dell'agricoltura**  
La diffusione dei dati del Censimento dell'agricoltura si arricchisce di due nuovi prodotti informativi  
Novità, martedì 2 ottobre 2012

Occupati

Numero totale di occupati

Periodo	Numero totale di occupati (milioni di unità)
A 2011	23.02
S 2011	22.94
O 2011	22.98
N 2011	22.92
D 2011	22.96
G 2012	22.98
F 2012	23.00
M 2012	22.96
A 2012	22.96
M 2012	23.02
G 2012	23.00
L 2012	22.98
A 2012	22.94

dati destagionalizzati, valori assoluti in milioni di unità

tag

esportazioni imprese  
famiglia spesa servizi costruzioni  
inflazione reddito occupati  
retribuzioni industria  
importazioni produzione  
lavoro consumi

datawarehouse  
I.Stat

CENSIMENTO DELL'INDUSTRIA E DEI SERVIZI 2011

15° CENSIMENTO GENERALE DELLA POPOLAZIONE E DELLE ABITAZIONI 2011

SCUOLA SUPERIORE DI STATISTICA

# www.ggdc.net

The screenshot shows a web browser window displaying the homepage of the Groningen Growth and Development Centre (GGDC). The browser's address bar shows the URL <http://www.rug.nl/feb/onderzoek/onderzoekscentra/ggdc/index>. The page header includes the University of Groningen logo and the Faculty of Economics and Business logo. A navigation menu is visible with links for Information for..., News, Education, Research, Faculty, Facilities, Library, and Job opportunities. The main content area features a large banner image of people and a sidebar with a GGDC menu. The central text describes the GGDC's founding in 1992 and its research focus. A portrait of Angus Maddison is shown with a caption identifying him as the co-founder of the GGDC. On the right side, there are several database logos: Maddison Historical Statistics, I.O. Sector Database, GGDC Product Level Database, Historical National Accounts, and EU KLEMS. The footer contains a breadcrumb trail and a 'To top' link.

The Groningen Growth and Development Centre

The Groningen Growth and Development Centre was founded in 1992 within the Economics Department of the University of Groningen by a group of researchers working on comparative analysis of levels of economic performance and differences in growth rates.

The activities of the Centre are primarily in the field of research. This research is largely based on a range of comprehensive databases on indicators of growth and development that the Centre compiles and maintains on a regular basis.

The participants of the Centre publish papers, articles and books often linked to these databases. It also organises seminars and conferences, and it submits and supports (joint) proposals to finance research in this field. Its current director is Marcel Timmer.

**GGDC News**

[GGDC News archive](#)

English

Maddison Historical Statistics

I.O. Sector Database

GGDC Product Level Database

Historical National Accounts

EU KLEMS

Angus Maddison (1926-2010) co-founder of the GGDC.

Home RUG > FEB > Research > Centres of Expertise > GGDC


Home RUG > FEB > Research > Centres of Expertise > GGDC

^ To top

ggdc.net/maddison/index.htm

http://www.ggdc.nl/maddison/

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Angus Maddison 1926-2010

GGDC | contact

Angus Maddison Conference 2010 Maddison Project Original Maddison homepage Publications

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Angus Maddison

Angus Maddison

News

Contact

## Angus Maddison 1926 - 2010

Angus Maddison was a world scholar on quantitative macroeconomic history, including the measurement and analysis of economic growth and development. He was professor at the University of Groningen from 1978 to 1997, and a founder of the Groningen Growth and Development Center. This website provides access to major parts of Angus' work as well as to new work that is being conducted in his spirit.

'[Original Homepage Angus Maddison](#)' - this page was kept up to date until Angus passed away in April 2010. It provides access to his latest writings and data series.

'[The Maddison Project](#)' - in March 2010, was launched by a group of close colleagues of Angus Maddison, with the aim to support an effective way of cooperation between scholars to continue Maddison's work on measuring economic performance for different regions, time periods and subtopics.

'[Memorial Conference for Angus Maddison](#)', 6-7 November, Amsterdam - about 70 close colleagues, friends and family of Angus gathered in Amsterdam to celebrate Angus' work and life.

### In Memoriam

[Angus Maddison: Memories of the Life of a Chiffrephile](#)  
By Bart van Ark

The [following article](#) is published in The Economist about Angus Maddison's life and work.

### Latest News

[Professor Jan Luiten van Zanden on new Maddison chair](#)  
October 2010  
Prof.dr. Jan Luiten van Zanden has been appointed as honorary professor on the new Maddison chair at the Faculty of Economics and Business of the University of Groningen. Van Zanden is winner of the Spinoza Prize, the highest Dutch academic award. The new chair has been founded to commemorate Angus Maddison, professor emeritus at the faculty, as well as to strengthen the discipline of Economic History.

Go directly to: [New Maddison chair](#)

Home Maddison

http://www.ggdc.net/MADDISON/oriindex.htm

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**GGDC**

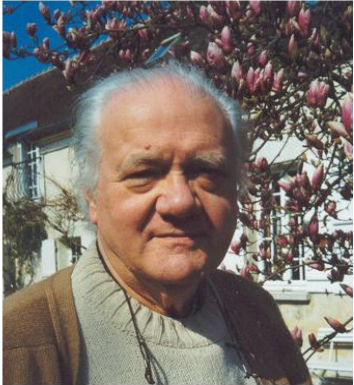
Groningen Growth & Development Centre

Back to homepage

**Angus Maddison**  
*(1926-2010)*

**Emeritus Professor**  
**Faculty of Economics**  
**University of Groningen**

This is the last version of the Angus Maddison homepage, last updated on March 2010. Further information can be found on the [Maddison-Project Website](#)



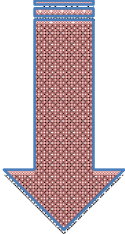
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**Personal information**

New Books:(1) [Contours of the world Economy, 1-2030 AD: Essays in Macroeconomic History, Oxford University Press, September 2007](#)  
(2) [Chinese Economic Performance in the Long Run, 960-2030, OECD, Paris, October 2007](#)  
[Royal Decoration, October 2006](#)  
[Honorary Doctorate, Hitotsubashi University, Japan, October, 2007](#)  
[Curriculum Vitae](#)  
[Autobiography](#)  
[Research Objectives & Results, 1952-2002](#)  
[A Scurrilous Book Review by a Murky Malthusian](#)

**Books**

[Contours of the World Economy 1-2030 AD](#)  
[Growth and Interaction in the World Economy](#)  
[Chinese Economic Performance in the Long Run](#)  
[Monitoring the World Economy, 1820-1992](#)  
[The World Economy: A Millennial Perspective \(From OECD website\)](#)  
[-Chapter 1:Contours of World Development](#)



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### Historical Statistics

[Revision of Population Estimates; Explanatory Background Note on Historical Statistics](#)  
[Statistics on World Population, GDP and Per Capita GDP, 1-2008 AD](#) (Horizontal file, copyright Angus Maddison, university of Groningen)  
[Statistics on World Population, GDP and Per Capita GDP, 1-2008 AD](#) (Vertical file, copyright Angus Maddison, university of Groningen)


### Reprints of Maddison Books


The following books are again in print. They were published in 2006 by Routledge (original publication dates shows in brackets):  
Economic Growth in the West (1964)  
Economic Growth in Japan and the USSR (1969)  
Economic Progress and Policy in Developing Countries (1970)  
Class Structure and Economic Growth: India and Pakistan since the Moghuls (1971)


### Conferences

*Groningen, 27 October 2006:* World Economic Performance: Past, Present and Future with a focus on Europe, the Americas and Africa, Workshop at the Occasion of Angus Maddison's 80th Birthday  
*Brisbane, 5 and 6 December 2006:* [World Economic Performance: Past, Present and Future with a focus on selected economies from the Asia-Pacific region including Australia, China, India, Indonesia and Japan](#), Workshop at the Occasion of Angus Maddison's 80th Birthday

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### Historical Statistics

[Revision of Population Estimates: Explanatory Background Note on Historical Statistics Statistics on World Population, GDP and Per Capita GDP, 1-2008 AD](#) (Horizontal file, copyright Groningen)  
[Statistics on World Population, GDP and Per Capita GDP, 1-2008 AD](#) (Vertical file, copyright Groningen)

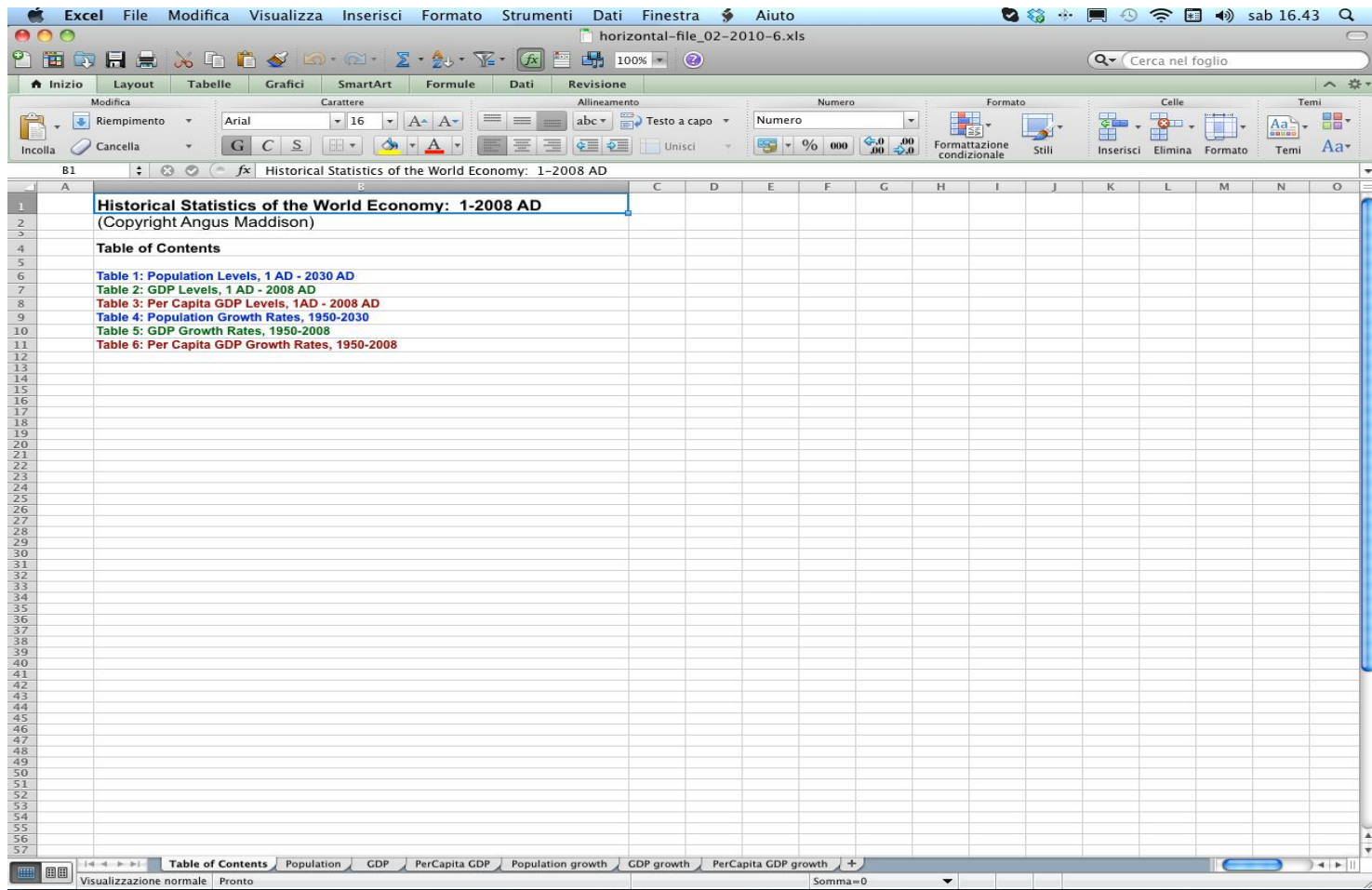
### Reprints of Maddison Books

The following books are again in print. They were published in 2006 by Routledge (original publication dates shows in brackets):  
Economic Growth in the West (1964)  
Economic Growth in Japan and the USSR (1969)  
Economic Progress and Policy in Developing Countries (1970)  
Class Structure and Economic Growth: India and Pakistan since the Moghuls (1971)

### Conferences

*Groningen, 27 October 2006:* [World Economic Performance: Past, Present and Future with a focus on Europe, the Americas and Africa, Workshop at the Occasion of Angus Maddison's 80th Birthday](#)  
*Brisbane, 5 and 6 December 2006:* [World Economic Performance: Past, Present and Future with a focus on selected economies from the Asia-Pacific region including Australia, China, India, Indonesia and Japan](#), Workshop at the Occasion of Angus Maddison's 80th Birthday

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# **Il trattamento dei dati**

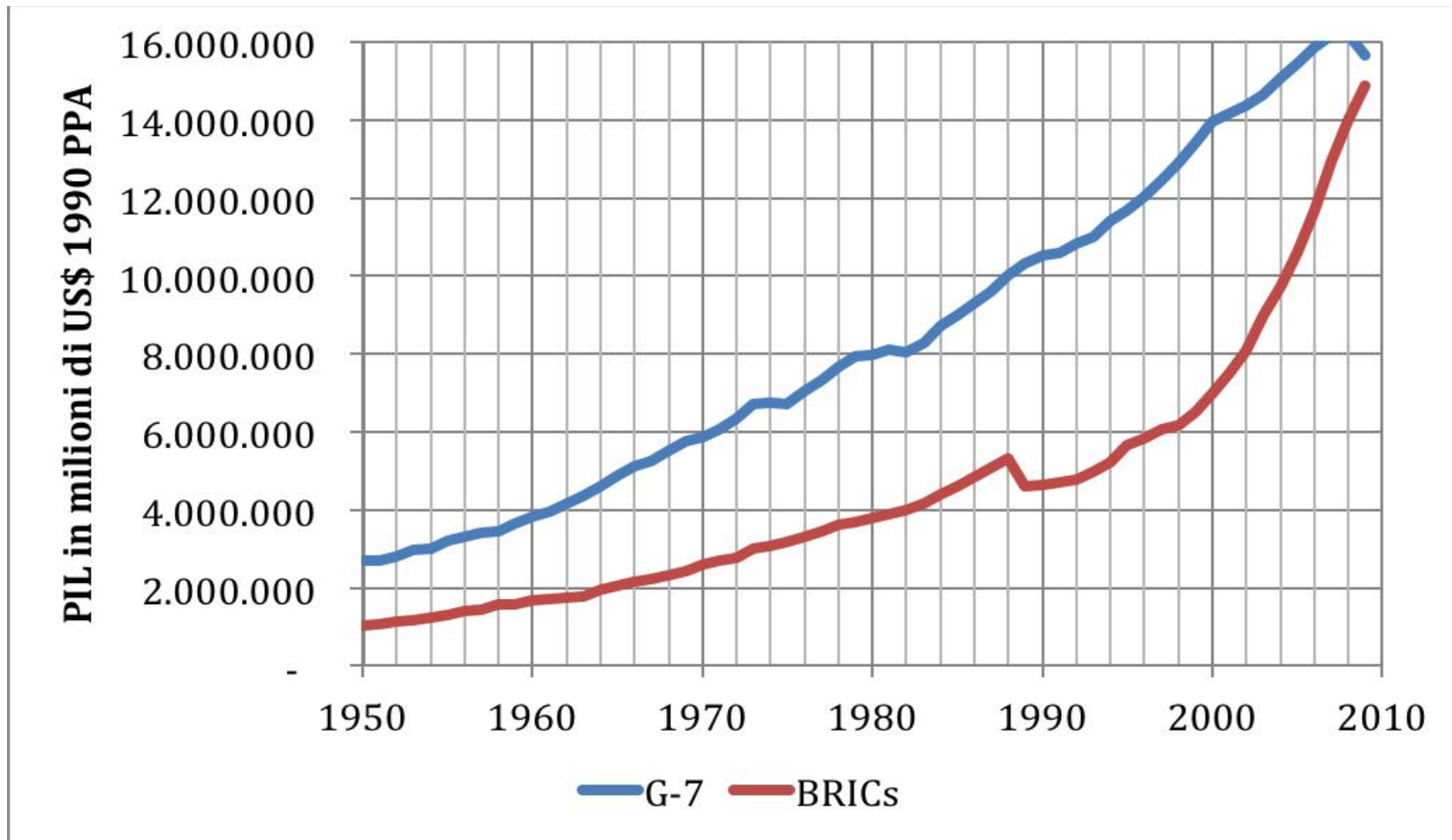
## Tipi di dati

- Le tipologie di dati economici
  - Serie storiche o temporali
  - Dati sezionali o *cross-section*
  - Panel-data
  - livelli e tassi di crescita

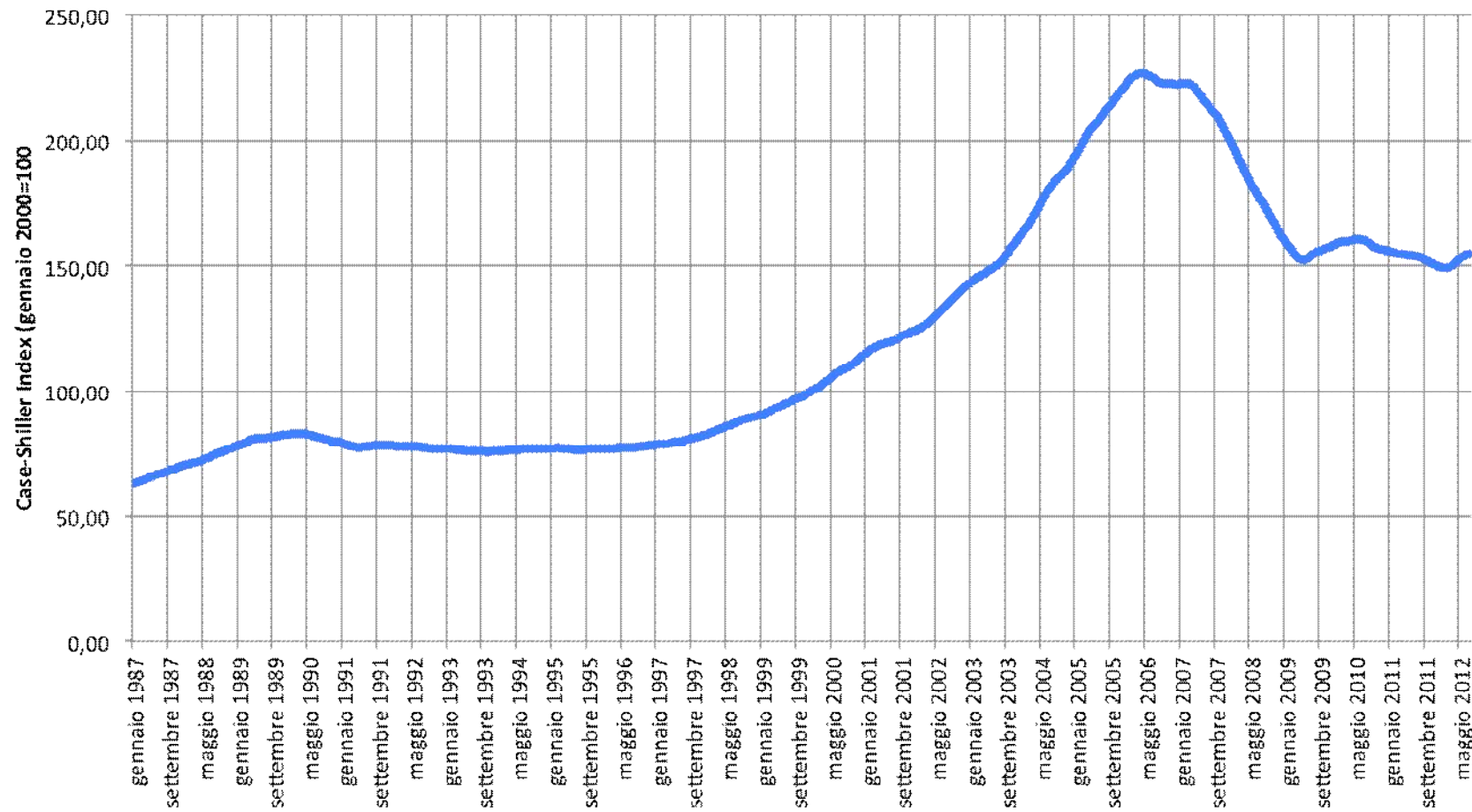
Il trattamento dei dati

# **Serie storiche**

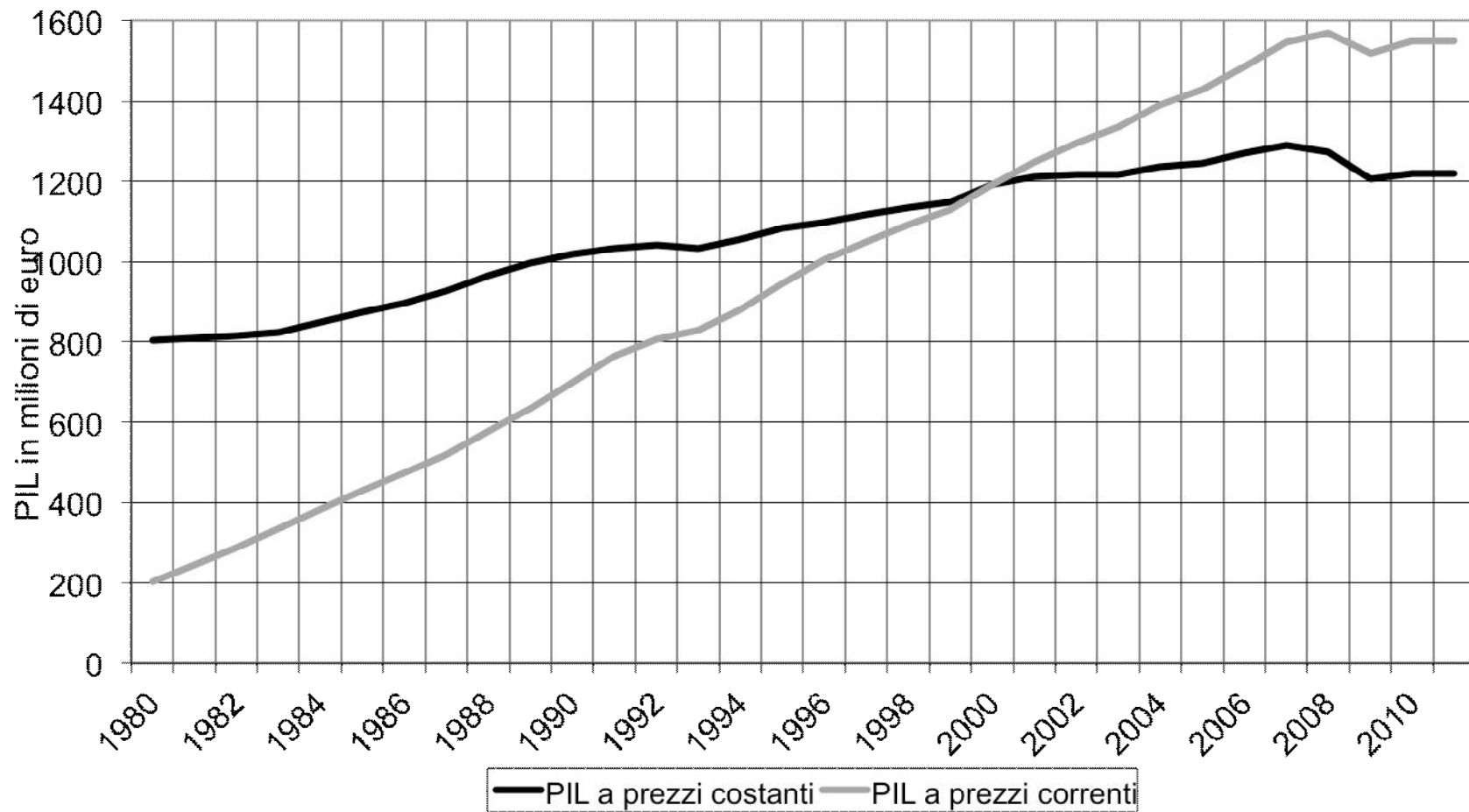
## The great divergence vs great convergence



# Prezzo delle case in USA



Serie storica  
PIL a prezzi correnti e a prezzi costanti  
Italia 1980-2010  
Fonte: IMF 2011



periodo	prezzo nominale	quantità prodotta	prezzi correnti	prezzi costanti
1	100	1000	100000	200000
2	110	1100	121000	220000
3	130	1000	130000	200000
4	160	900	144000	180000
<b>5</b>	<b>200</b>	<b>700</b>	<b>140000</b>	<b>140000</b>
6	250	800	200000	160000
7	240	900	216000	180000
8	220	800	176000	160000
9	230	800	184000	160000
10	250	900	225000	180000
11	260	1000	260000	200000

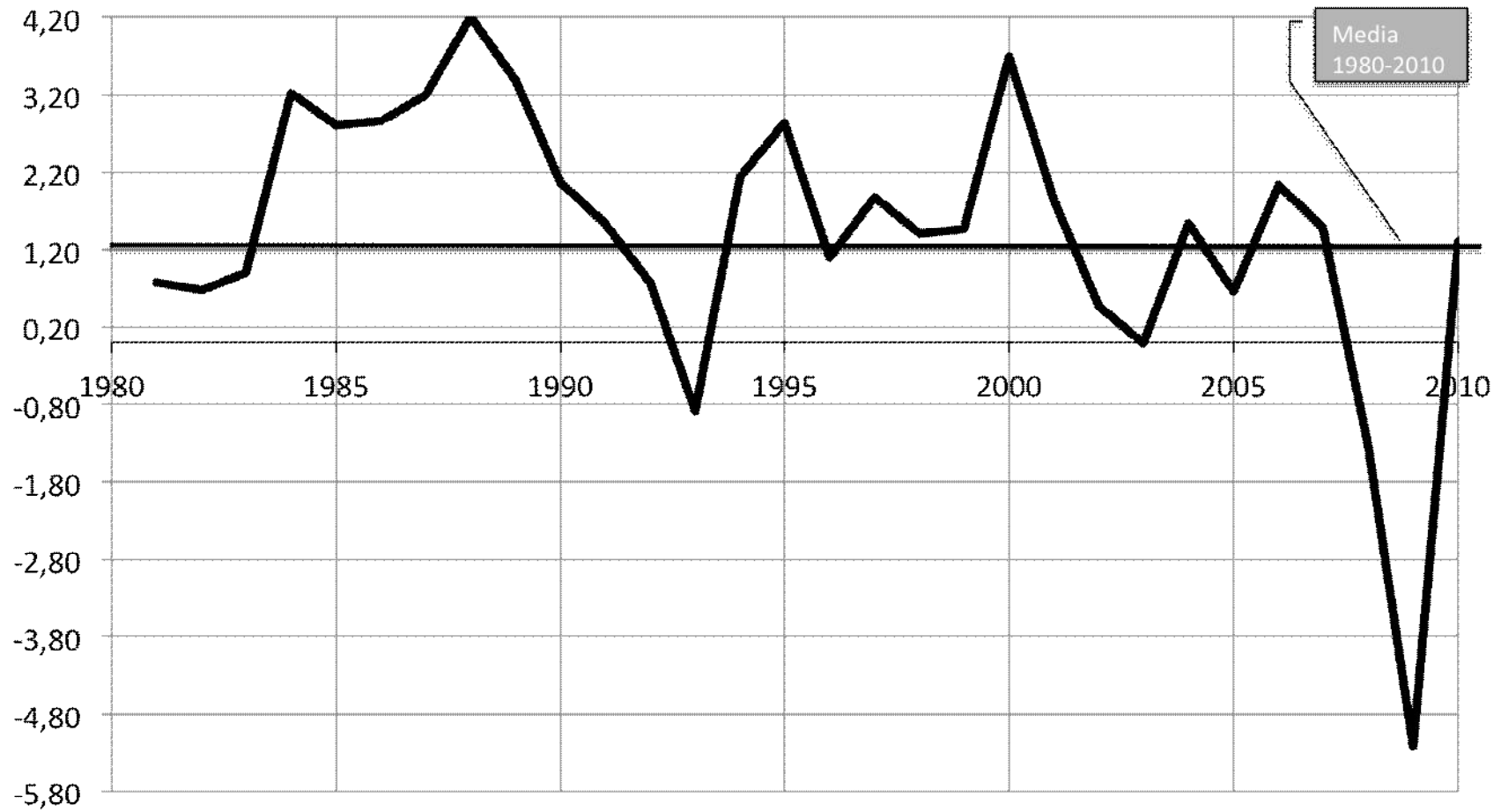
Prezzi correnti:  $q_n * p_n$

p.e.  $(q_7 * p_7) = 216.000$

Prezzi costanti:  $q_n * p_5$

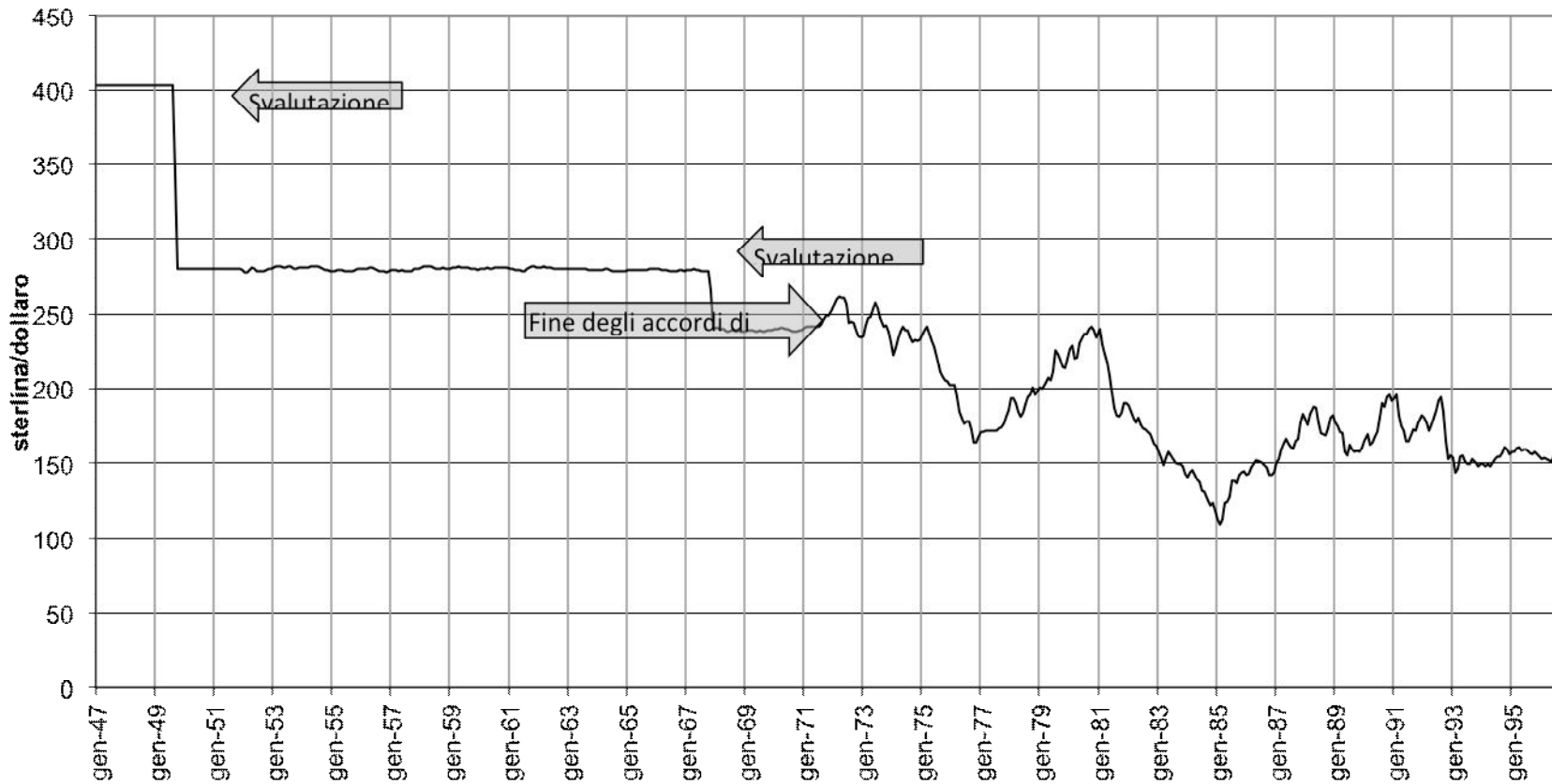
p.e.  $(q_7 * p_5) = 180.000$

Tassi di crescita  
Tasso di crescita del PIL  
Italia 1980-2010  
Fonte: IMF 2011





# Serie storica Cambio sterlina/dollaro Fonte: FED 2001



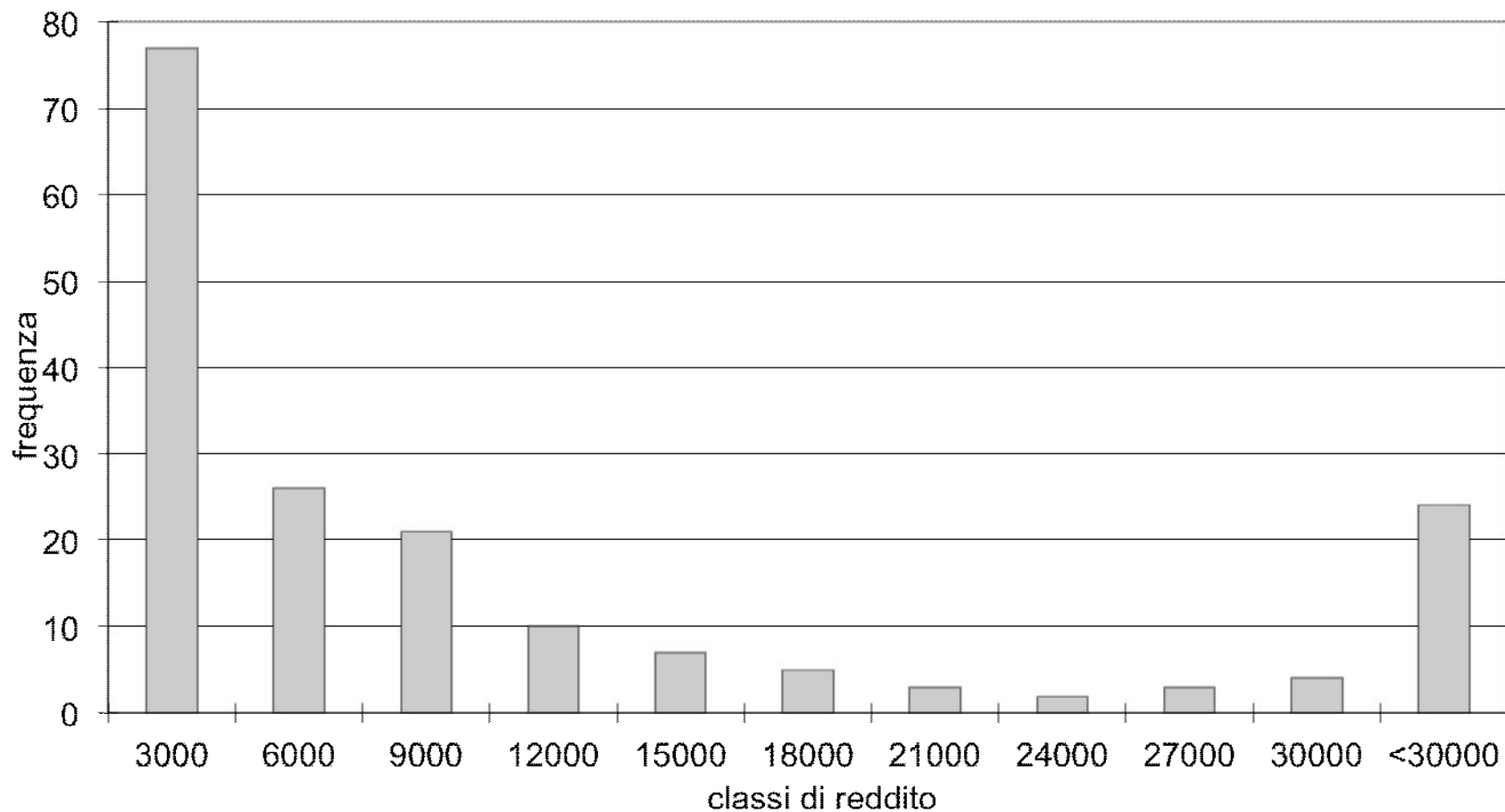
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# istogramma

# Istogramma

## Reddito pro-capite per gruppi di paesi 2010

Fonte: IMF 2011



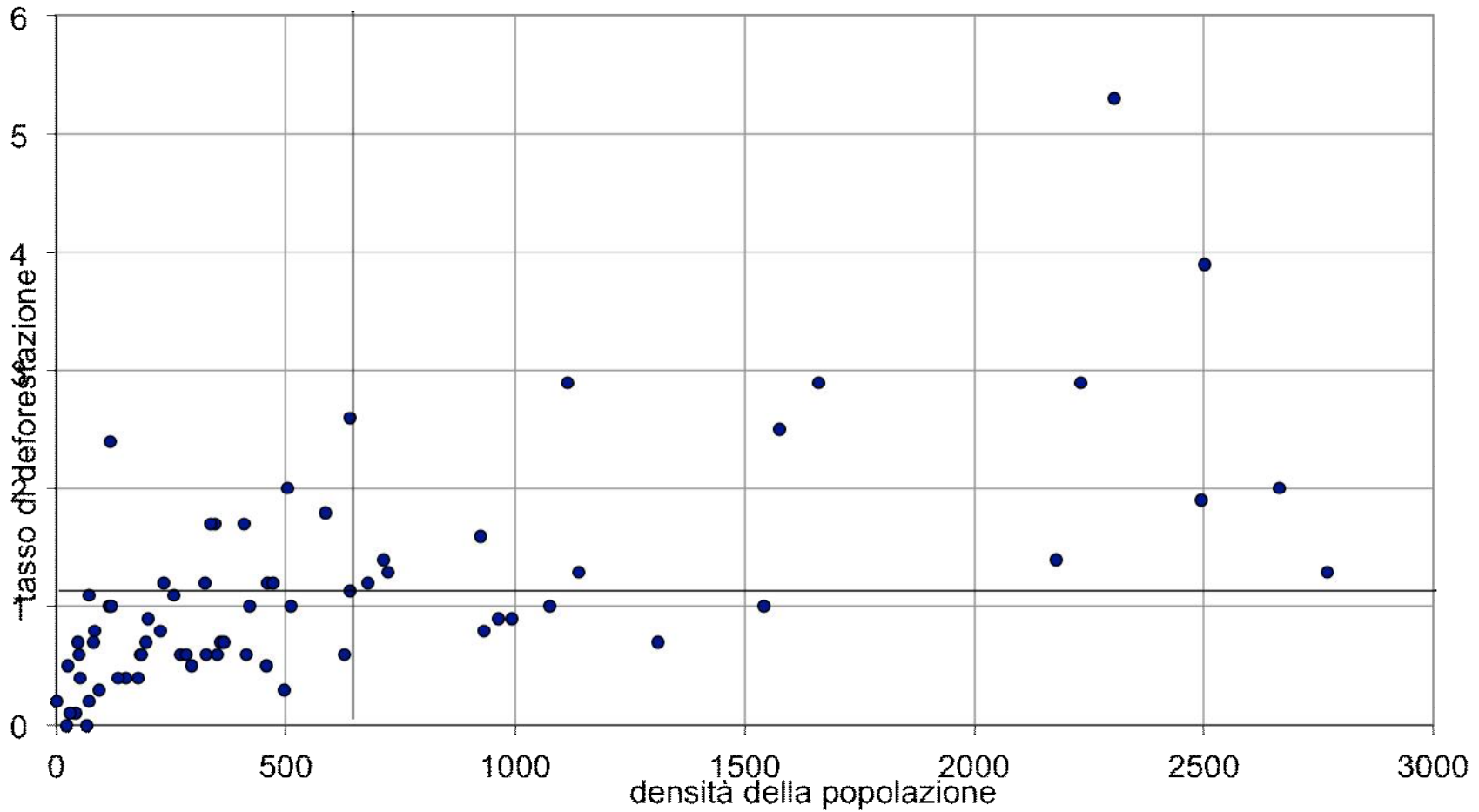
Il trattamento dei dati

# **correlazione**

# Correlazione

Tasso di deforestazione e densità della popolazione

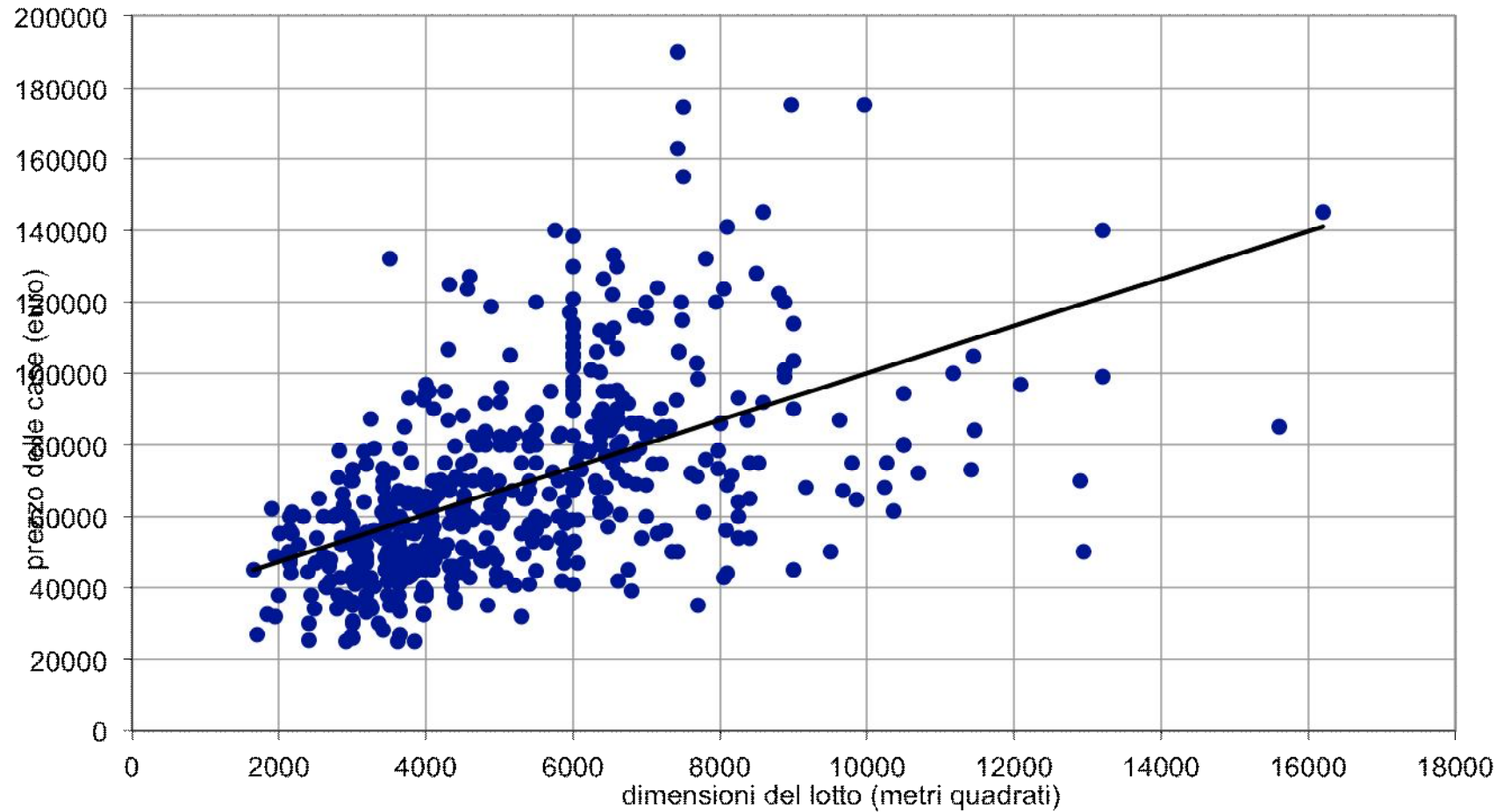
Fonte WB 2006



# Correlazione

## Prezzi delle case e dimensione del lotto

Fonte: Case-Shiller 2008



## Valori dell'indice di correlazione

Tabella 1 - Valori dell'indice di correlazione						
-1 ÷ -0,81	-0,80 ÷ 0,51	-0,50 ÷ -0,01	0	0,01 ÷ 0,50	0,51 ÷ 0,80	0,81 ÷ 1
Fortissima correlazione negativa (inversa)	Forte correlazione negativa (inversa)	Correlazione negativa (inversa)	Variabili incorrelate	Correlazione positiva (diretta)	Forte correlazione positiva (diretta)	Fortissima correlazione positiva

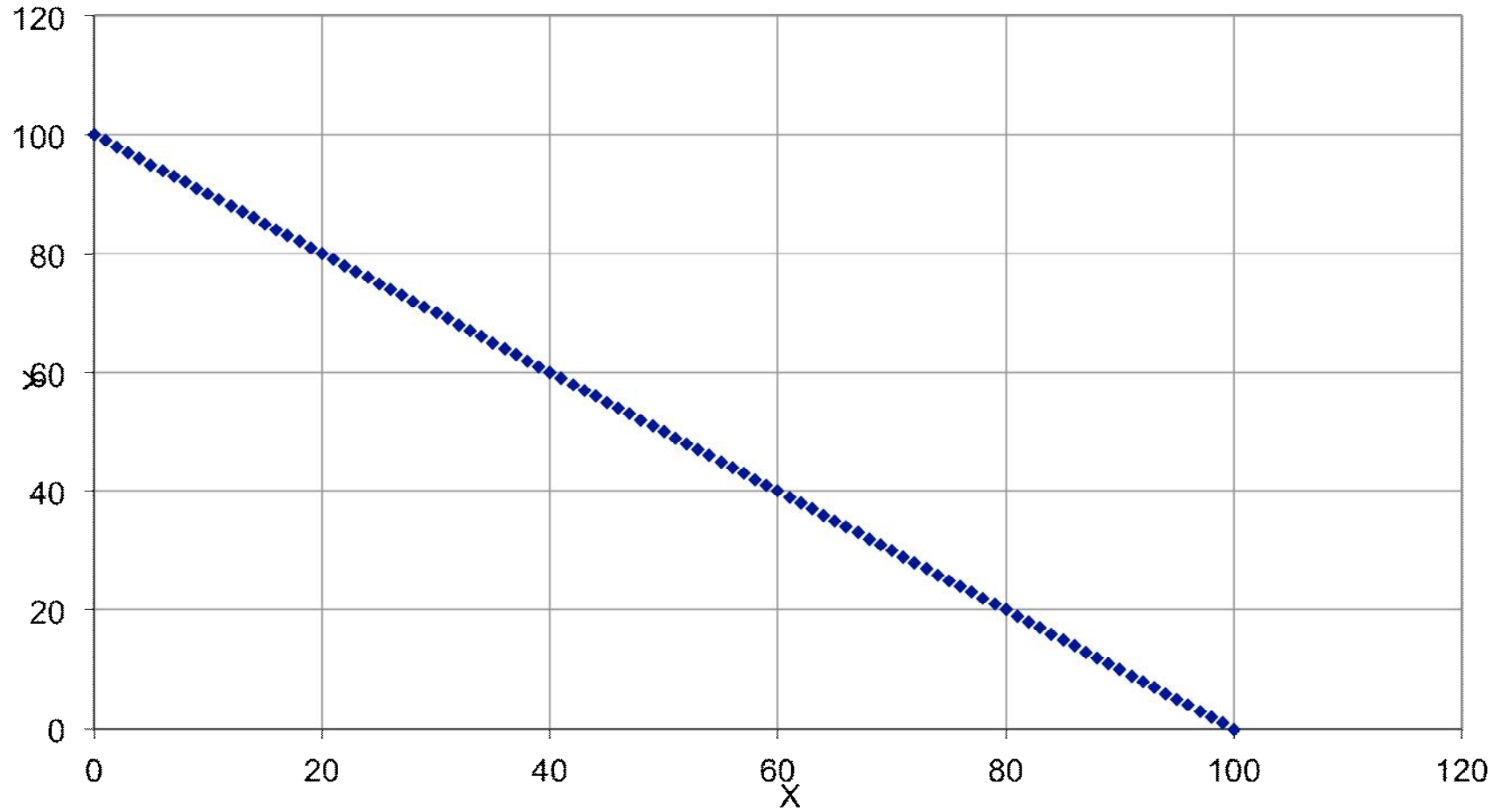
## Limiti della correlazione

- X e Y sono due variabili, entrambe di tipo quantitativo. Per esempio:
  - Anni medi di scolarità nei paesi OECD (X)
  - PIL pro capite nei paesi OECD (Y)
- 1° quesito:
  - Esiste una relazione fra le due variabili?
- 2° quesito:
  - La relazione è diretta o inversa?
- 3° quesito:
  - Quale è la variabile dipendente e quale quella indipendente?



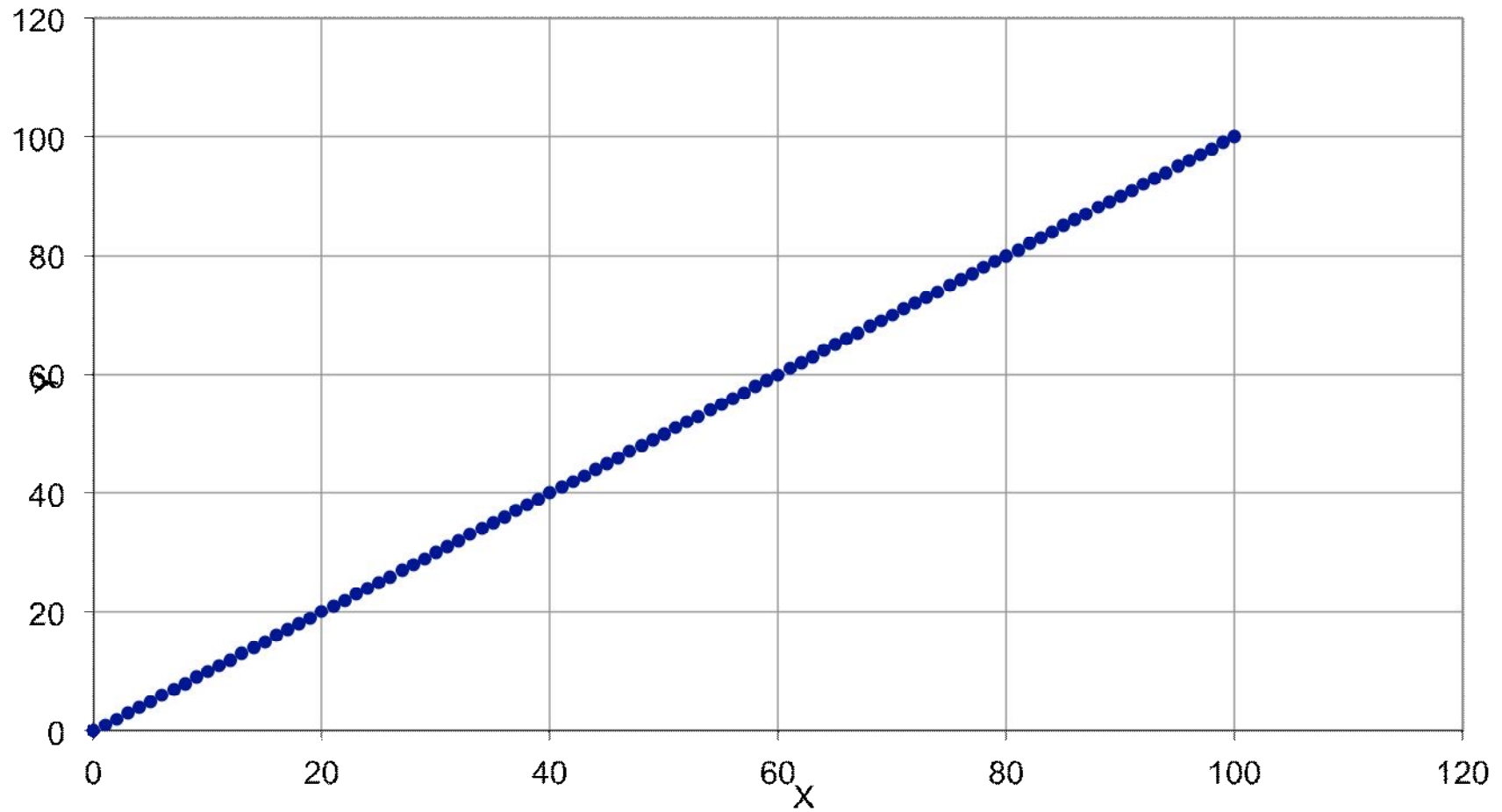
# Correlazione diretta (perfetta)

$r=-1$



# Correlazione inversa (perfetta)

$r=1$



# Correlazione non presente

$$r \cong 0$$

